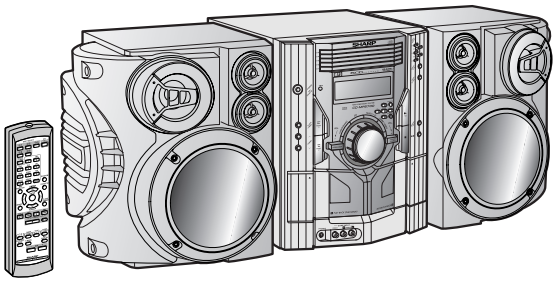
SHARP SERVICE MANUAL

No. XXXXXXXXXXXXX



MP3

MINI COMPONENT SYSTEM

MODEL CD-MPS700

CD-MPS700 Mini Component System consisting of CD-MPS700 (main unit) and CP-MPS700 (speaker system).

CONTENTS

CHAPTER 1. GENERAL DESCRIPTION
[1] Specifications 1-1
[2] Names of parts 1-2

CHAPTER 2. ADJUSTMENTS
[1] Mechanism section 2-1
[2] Tuner section 2-1
[3] TEST MODE 2-2
[4] CD section 2-4
[5] CD Changer mechanism section 2-5

CHAPTER 3. MECHANISM BLOCKS
[1] Caution on diassembly 3-1
[2] Removing and reinstalling the main parts 3-4

CHAPTER 4. DIAGRAMS
[1] Block diagrams 4-1

CHAPTER 5. CIRCUIT DESCRIPTION
[1] Notes on schematic diagram 5-1
[2] Types of transistor and LED 5-1
[3] Waveforms of CD circuit 5-2
[4] Voltage 5-3

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT
[1] Schematic diagram 6-1
[2] Wiring side of PWB 6-11

CHAPTER 7. FLOWCHART
[1] Troubleshooting 7-1

CHAPTER 8. OTHERS
[1] Function table of IC 8-1
[2] FL Display 8-10

Parts Guide

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

CHAPTER 1. GENERAL DESCRIPTION

[1] Specifications

FOR A COMPLETE DESCRIPTION OF THE OPERATION OF THIS UNIT, PLEASE REFER TO THE OPERATION MANUAL.

CD-MPS700

■ General

Power source	AC 120 V, 60 Hz
Power consumption	135 W
Dimensions	Width: 10-1/4" (260 mm) Height: 13" (330 mm) Depth: 12-7/8" (326 mm)
Weight	18.5 lbs. (8.4 kg)

■ Amplifier

Output power	MPO: 600 W (300 W + 300 W) (10 % T.H.D.) RMS: 300 W (150 W + 150 W) (10 % T.H.D.) RMS: 180 W (90 W + 90 W) (0.9 % T.H.D.)
Output terminals	Speakers: 6 ohms Headphones: 16 - 50 ohms (recommended: 32 ohms) Video output: 1Vp-p
Input terminals	Game/ Auxiliary (audio signal): 500 mV/ 47 k ohms Game/Video: 1 Vp-p/75 ohms

■ CD player

Type	5-disc multi-play compact disc player
Signal readout	Non-contact, 3-beam semiconductor laser pickup
D/A converter	1-bit D/A converter
Frequency response	20 - 20,000 Hz
Dynamic range	90 dB (1 kHz)

■ Tuner

Frequency range	FM: 87.5 - 108.0 MHz AM: 530 - 1,720 kHz

■ Cassette deck

Frequency response	50 - 14,000 Hz (normal tape)
Signal/noise ratio	55 dB (TAPE 1, playback) 50 dB (TAPE 2, recording/playback)
Wow and flutter	0.3 % (WRMS)

CP-MPS700

Type	3-way type speaker system with passive radiator Super tweeter × 2 2" (5 cm) tweeter × 1 6-1/2" (16 cm) woofer × 1 4" (10 cm) passive radiator
Maximum input power	300 W
Rated input power	150 W
Impedance	6 ohms
Dimensions	Width: 10-7/8" (277 mm) Height: 13" (330 mm) Depth: 11" (279 mm)
Weight	8.6 lbs. (3.9 kg)/each

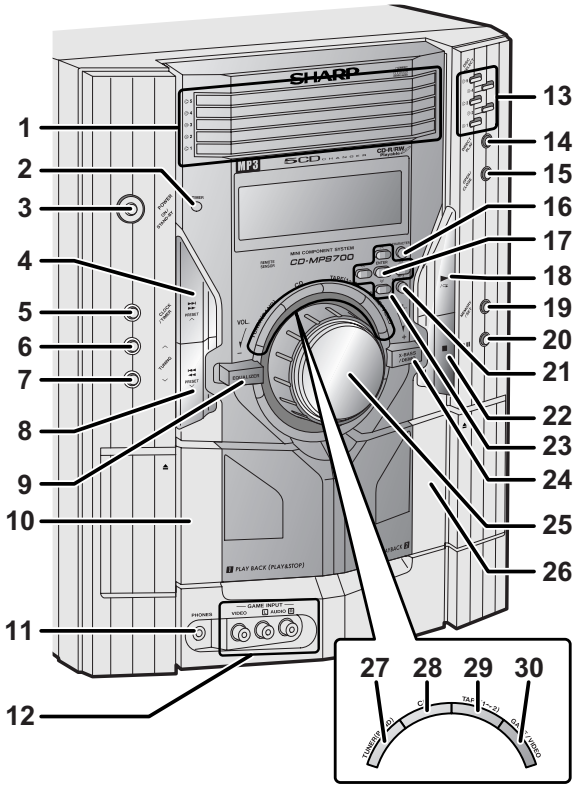
Specifications for this model are subject to change without prior notice.

[2] Names of parts

CD-MPS700

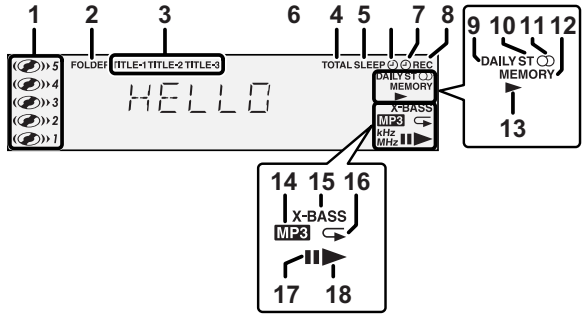
■ Front panel

1. Disc Trays
2. Timer Indicator
3. Power On/Stand-by Button
4. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
5. Clock/Timer Button
6. Tuning Up Button
7. Tuning Down Button
8. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
9. Equalizer Mode Select Button
10. Tape 1 Cassette Compartment
11. Headphone Jack
12. Game/Video Input Jacks
13. Disc Number Select Buttons
14. Disc Direct Play Button
15. Disc Tray Open/Close Button
16. Character Button
17. Enter Button
18. Disc Play or Repeat, Tape Play Button
19. Memory/Set Button
20. Tape 2 Record Pause Button
21. MP3 Disc Navigation Mode Select Button
22. Disc or Tape Stop Button
23. Cursor Buttons
24. Extra Bass/Demo Mode Button
25. Volume Control
26. Tape 2 Cassette Compartment
27. Tuner (Band) Button
28. CD Button
29. Tape (1 ↔ 2) Button
30. Game/Video Button



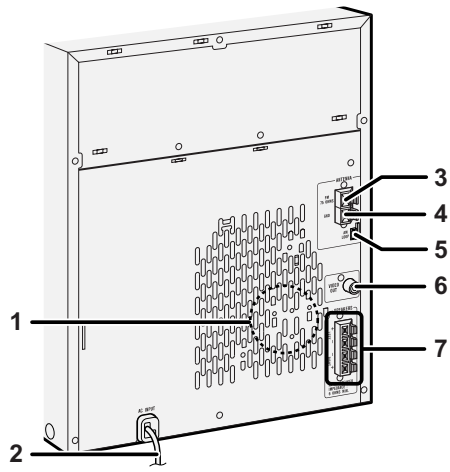
■ Display

1. Disc Number Indicators
2. MP3 Folder Indicator
3. MP3 Title Indicators
4. MP3 Total Indicator
5. Sleep Indicator
6. Timer Play Indicator
7. Timer Recording Indicator
8. Tape 2 Record Indicator
9. Daily Timer Indicator
10. FM Stereo Mode Indicator
11. FM Stereo Receiving Indicator
12. Memory Indicator
13. Tape Play Indicator
14. MP3 Disc Indicator
15. Extra Bass Indicator
16. Disc Repeat Play Indicator
17. Disc Pause Indicator
18. Disc Play Indicator



■ Rear panel

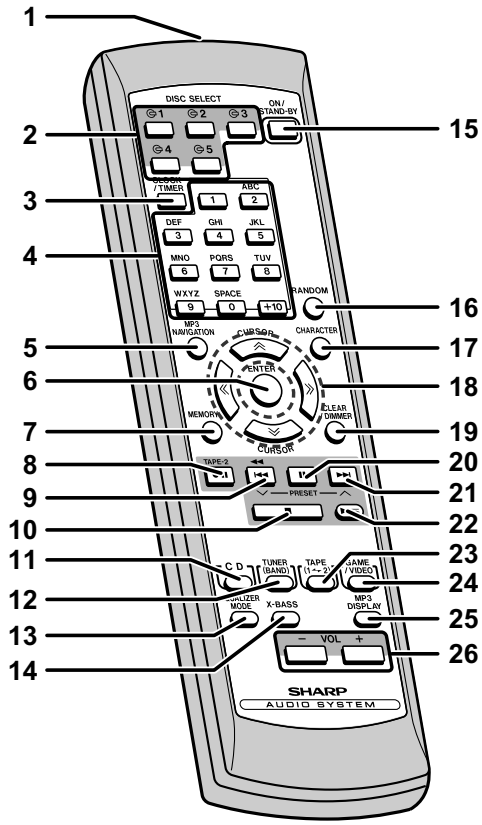
1. Cooling Fan
2. AC Power Cord
3. FM 75 Ohms Antenna Terminal
4. FM Antenna Ground Terminal
5. AM Loop Antenna Jack
6. Video Output Jack
7. Speaker Terminals



CD-MPS700

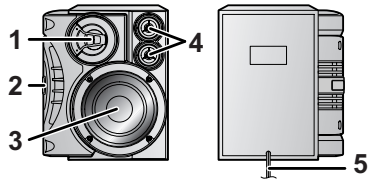
■ Remote control

1. Remote Control Transmitter
2. Disc Number Select Buttons
3. Clock/Timer Button
4. Character Input/Disc Direct Search Buttons
5. MP3 Disc Navigation Mode Select Button
6. Enter Button
7. Memory/Set Button
8. Tape 2 Record Pause Button
9. Disc Track Down or Fast Reverse, Tape 2 Rewind, Tuner Preset Down, Time Down Button
10. Disc or Tape Stop Button
11. CD Button
12. Tuner (Band) Button
13. Equalizer Mode Select Button
14. Extra Bass Button
15. Power On/Stand-by Button
16. Disc Random Button
17. Character Button
18. Cursor Buttons
19. Disc Clear/Dimmer Button
20. Disc Pause Button
21. Disc Track Up or Fast Forward, Tape 2 Fast Forward, Tuner Preset Up, Time Up Button
22. Disc Play or Repeat, Tape Play Button
23. Tape (1→2) Button
24. Game/Video Button
25. MP3 Disc Display Button
26. Volume Up and Down Buttons



CP-MPS700

1. Tweeter
2. Passive Radiator
3. Woofer
4. Super Tweeters
5. Speaker Wire



CHAPTER 2. ADJUSTMENTS

[1] Mechanism section

- Driving Force Check

Torque Meter	Specified Value
Play: TW-2111	Tape 1: Over 80 g Tape 2: Over 80 g

- Torque Check

Torque Meter	Specified Value	
	Tape 1	Tape 2
Play: TW-2111	30 to 80 g.cm	30 to 80 g.cm
Fast forward: TW-2231	—	70 to 180 g.cm
	—	70 to 180 g.cm

- Tape Speed

	Test Tape	Adjusting Point	Specified Value	Instrument Connection
Normal speed	MTT-111	Variable Resistor in motor.	3,000 ± 30 Hz Speaker	Speaker Terminal (Load resistance: 6 ohms)

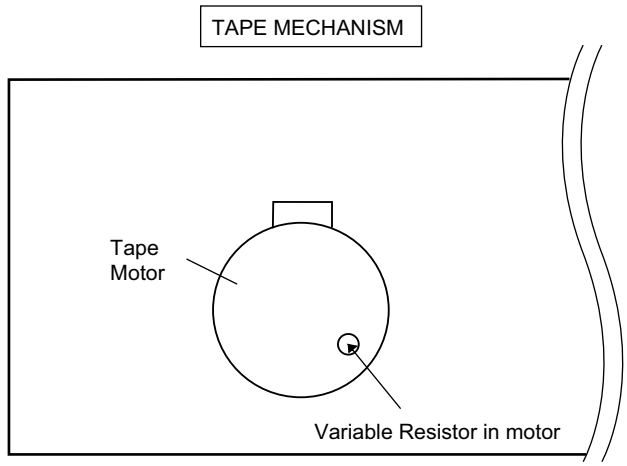


Figure 1

[2] Tuner section

fL: Low-range frequency

fH: High-range frequency

- AM IF/RF

  Signal generator: 400 Hz, 30%, AM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Parts	Instrument Connection
AM IF	450 kHz	1,720 kHz	T351	*1
AM Band Coverage	—	530 kHz	(fL): T306 1.1 ± 0.1 V	*2
AM Tracking	990 kHz	990 kHz	(fL): T303	*1

*1. Input: Antenna Output: TP302
*2. Input: Antenna Output: TP301

- FM RF

  Signal generator: 1 kHz, 40 kHz dev., FM modulated

Test Stage	Frequency	Frequency Display	Setting/ Adjusting Point	Instrument Connection
FM Band Coverage	—	87.50 MHz	T301 (fL): 1.3 V ± 0.1 V	*1
FM RF	98.00 MHz (10-30 dB)	98.00 MHz	L312	*2

*1. Input: Antenna Output: TP301
*2. Input: Antenna Output: Speaker terminal

- FM IF

  Signal generator: 10.7 MHz, FM modulated

Test Stage	Frequency	Frequency Display	Setting/Adjusting Point	Instrument Connection
IF	10.7 MHz	98 MHz	T302 (Turn the core of transformer T302 fully counter clockwise)	*1

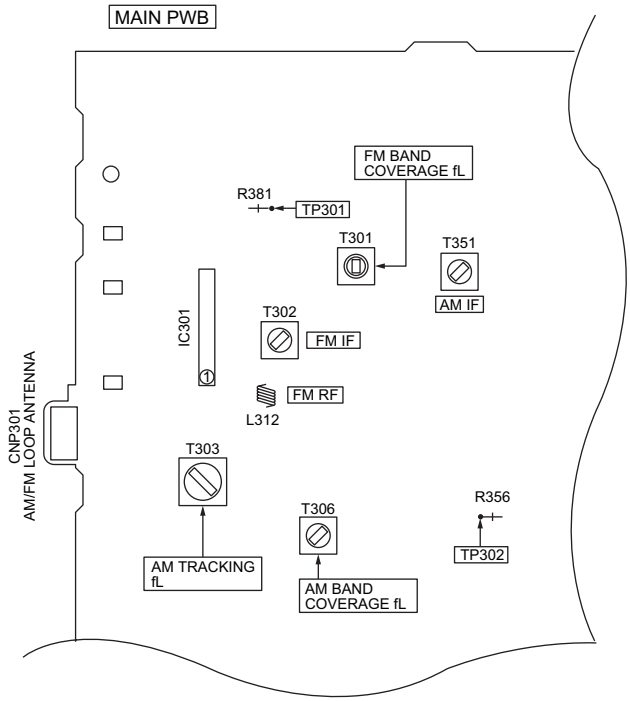
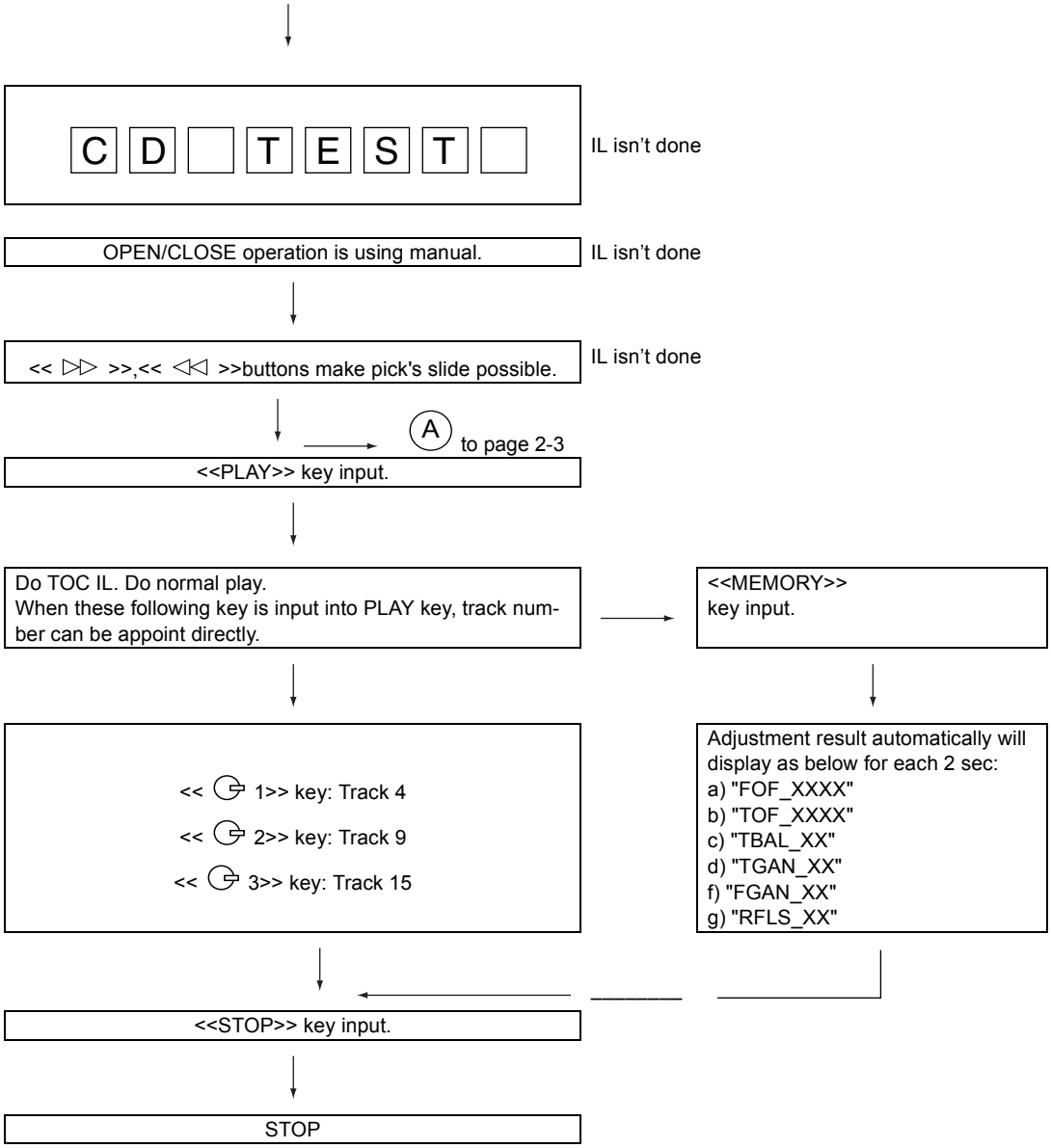


Figure 2 Adjustment Points

[3] TEST MODE

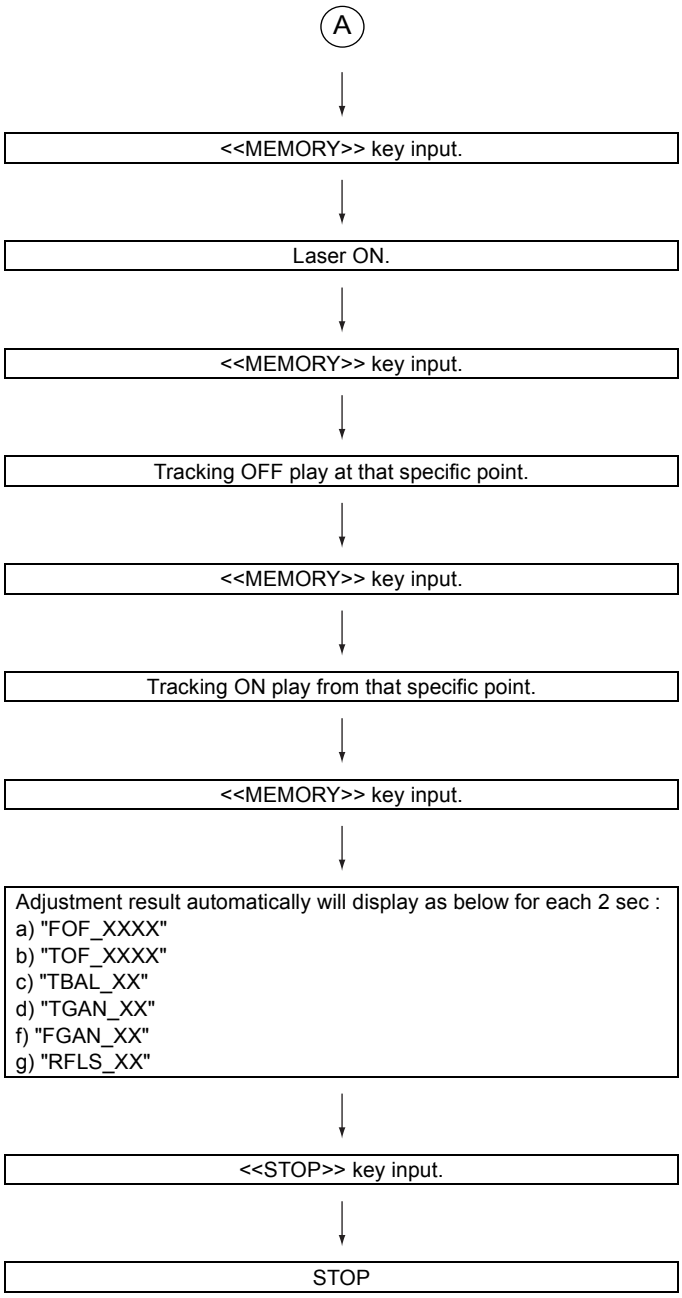
• Setting the test mode

During stand-by mode, press ON/STAND-BY button while pressing down the ■ button and X-BASS/DEMO button. then, press the CD button to enter the test mode.



explanation:

a) Focus off set = "FOF_XXXX"
b)Tracking off set = "TOF_XXXX"
c)Tracking balance = "TBAL_XX"
d)Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"
VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel : Power OFF



Sliding the PICKUP with<< ▷▷ >>, << ◁◁ >> button must only be in STOP mode.

explanation:

a) Focus off set = "FOF_XXXX"
b)Tracking off set = "TOF_XXXX"
c)Tracking balance = "TBAL_XX"
d)Tracking Gain = "TGAN_XX"
f) Focus Gain = "FGAN_XX"
g) RF level shift = "RFLS_XX"
VOL — Last memory
P.GEQ — FLAT
X-BASS — OFF
To cancel : Power OFF

[4] CD section

CD Error code description

Error	Explanation
01	When Pickup set inner position, inner switch cannot detect 'ON' level for 10 secs.
10*	CAM error. Can't detect CAM switch when CAM is moving.
11*	When it detect cam operation error during initialize process.
20*	TRAY error. Can't detect TRAY switch when TRAY is moving.
21*	When it detect TRAY operation error during initialize process.
31	When it change to CD function, DSP cannot read initial data.

* 'CHECKING'

If Error is detected, 'CHECKING' will be displayed instead of 'ER-CD**'. 'ER-CD**' display will only be displayed when error had been detected for the 5th times.

Standard Specification of Stereo System Error Message Display Contents

Error Contents		Display	Notes
CD	Pickup Mechanism Error.	'ER-CD01'	PU-IN SW Detection NG.
	CD Changer Mechanism Error.	'ER-CD**' (*)	10: CAM SW Detection NG during normal operation 11: CAM SW Detection NG during initialize process 20:TRAY SW Detection NG during normal operation 21:TRAY SW Detection NG during initialize process
	CD DSP Communication Error.	'ER-CD31'	DSP COMMUNICATION ERROR.
	Focus Not Match/IL Time Over.	'NO DISC'	
TUNER	PLL Unlock.	FM 87.5 MHz	PLL Unlock.

(*) CHECKING:

If CD changer mechanism error is detected, 'CHECKING' will be display instead of 'ER-CD**'. 'ER-CD**' display will only be display when error had been detected for the 5 th times.

Speaker abnormal detection and +B PROTECTION display

In case speaker abnormal detection or +B PROTECTION had occurred, it can be check by pressing 'POWER', ' ■ ' and 'X-BASS' button. MicroComputer version number will displayed as "XM******".

Press ‘GAME/VIDEO’ button during version number display and then press ‘POWER’, ‘MEMORY/SET’ and ‘GAME/VIDEO’ button. Display will show "S** B**". S is referring to speaker abnormal detection and B is referring to +B PROTECTION. ** is in hex valve.

+B PROTECTION is condition when irregular process occur on power supply line.

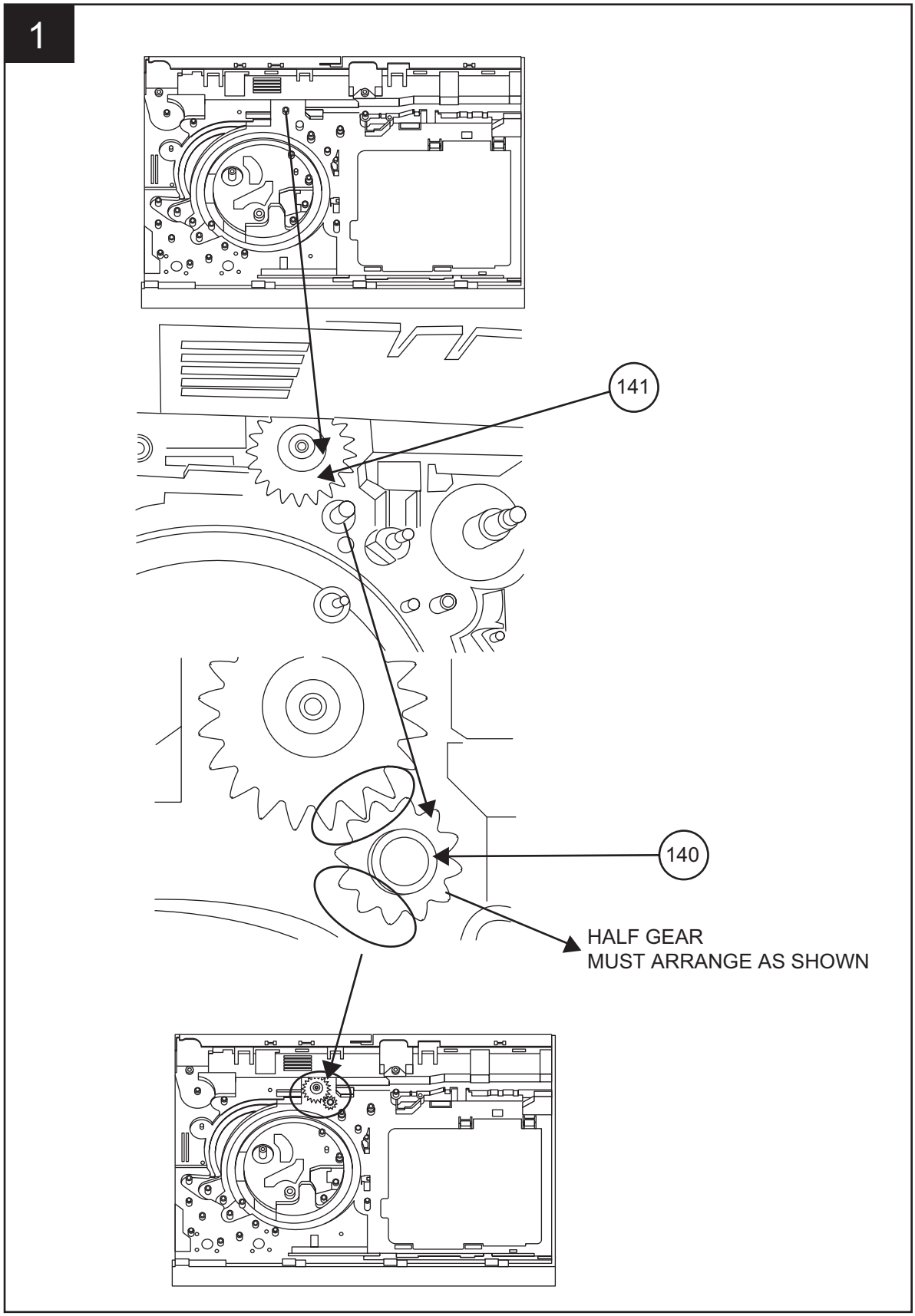
BEFORE TRANSPORTING THE UNIT

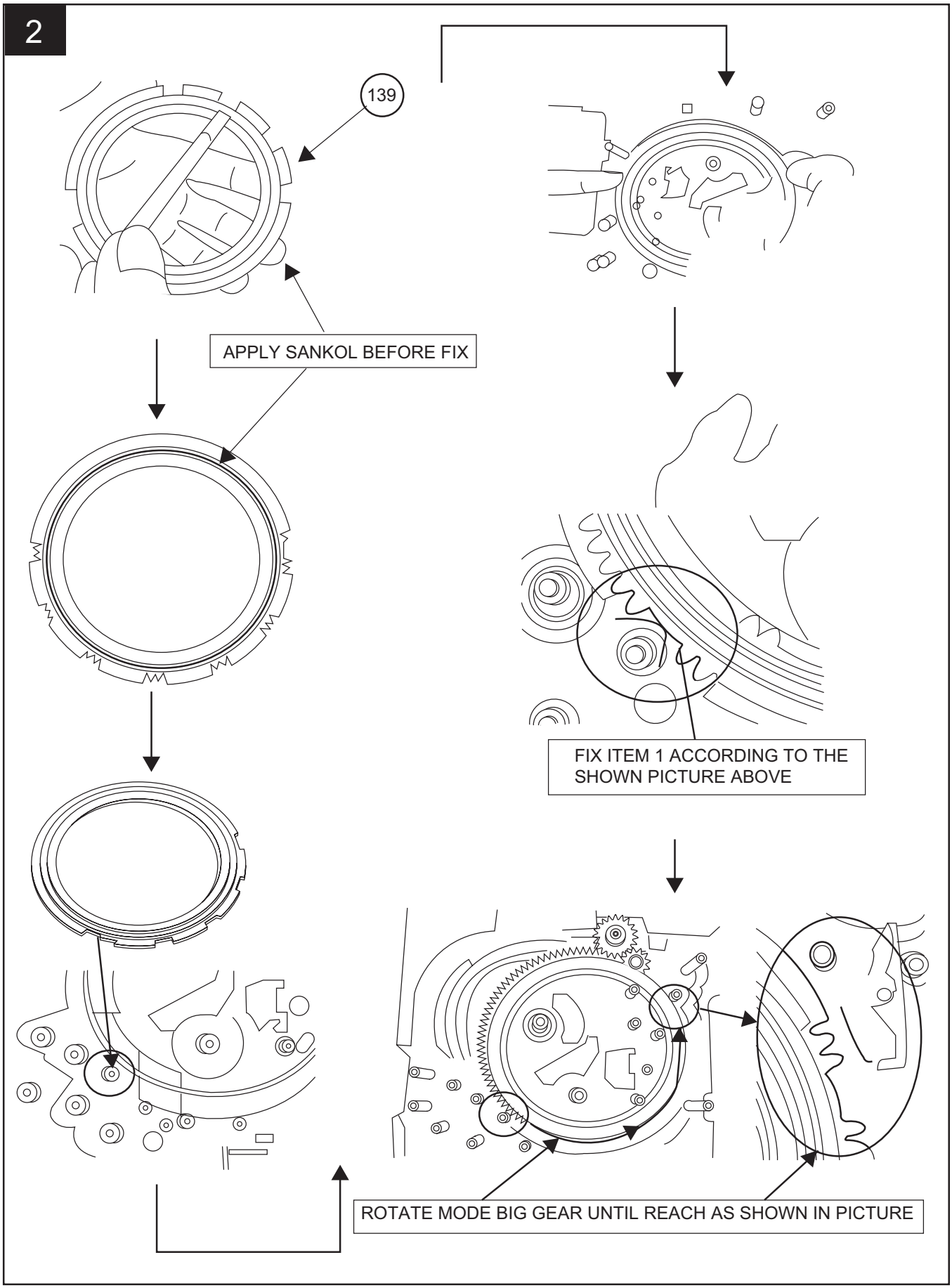
The following process need to be taken after set tapering/parts replacement.

1. Press the ON/STAND-BY button to enter stand-by mode.
2. While pressing down the ■ button and the X-BASS/DEMO button, press the ON/STAND-BY button. The Micro Computer version number will be displayed as "XM******".
3. Press OPEN/CLOSE button until "WAIT"→ "FINISHED" appears.
4. Unplug the AC cord and the unit is ready for transporting.

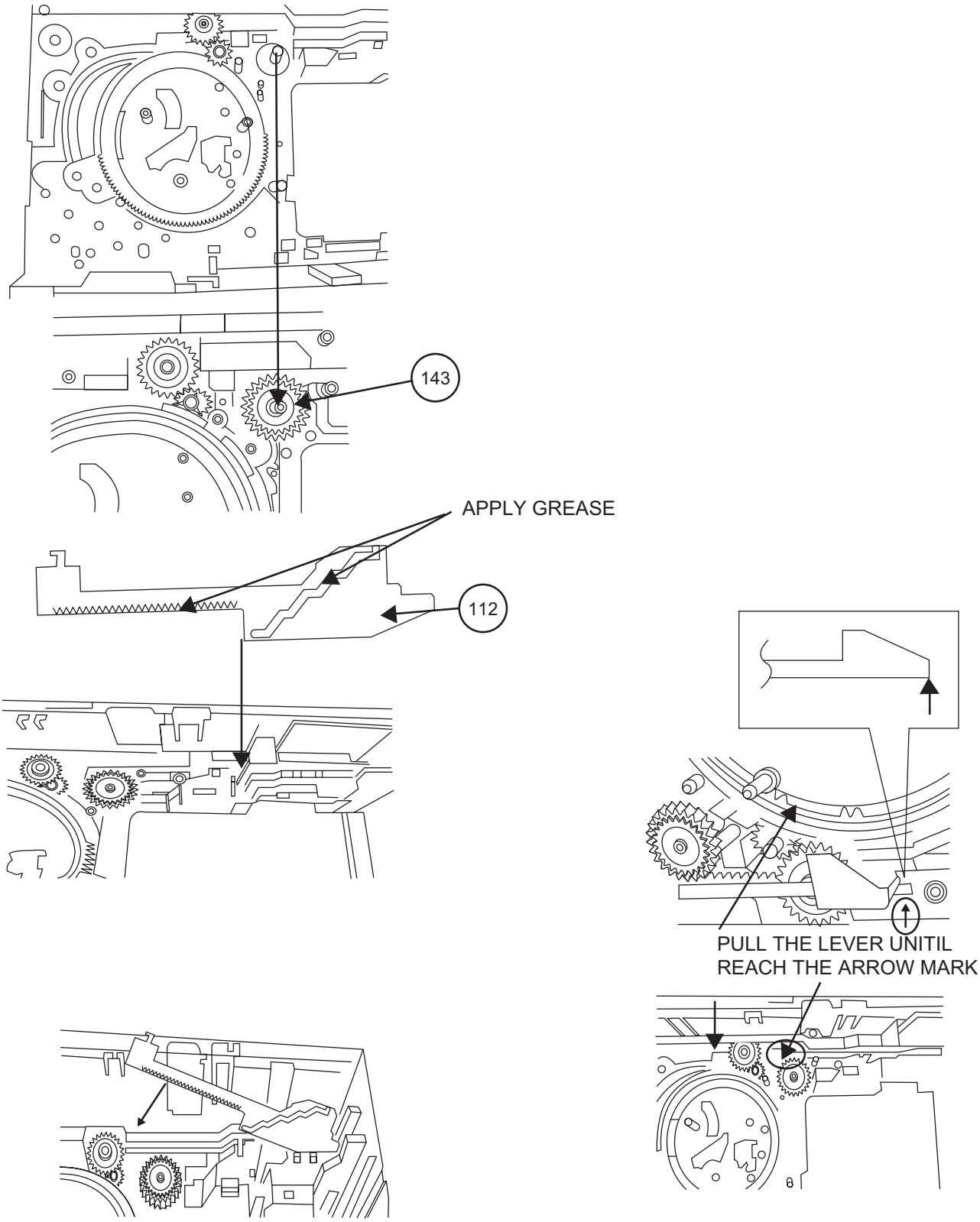
[5] CD Changer mechanism section

- A number in the drawing sheet is the number of the parts guide (CHANGER MECHANISM PARTS).




2
139
APPLY SANKOL BEFORE FIX
FIX ITEM 1 ACCORDING TO THE SHOWN PICTURE ABOVE
ROTATE MODE BIG GEAR UNTIL REACH AS SHOWN IN PICTURE

3


143
APPLY GREASE
112
PULL THE LEVER UNITIL
REACH THE ARROW MARK

4

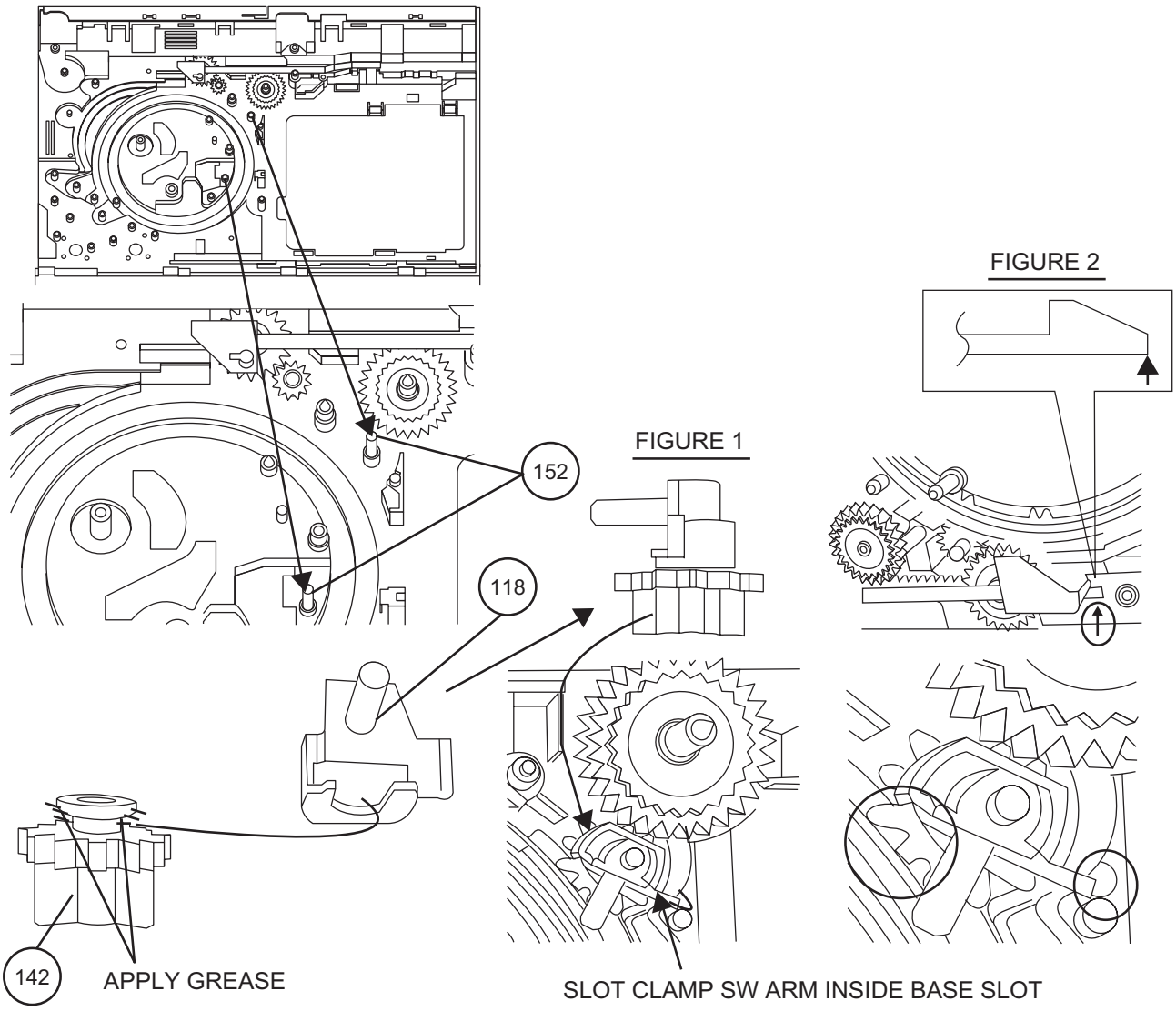


FIGURE 1

FIGURE 2

5

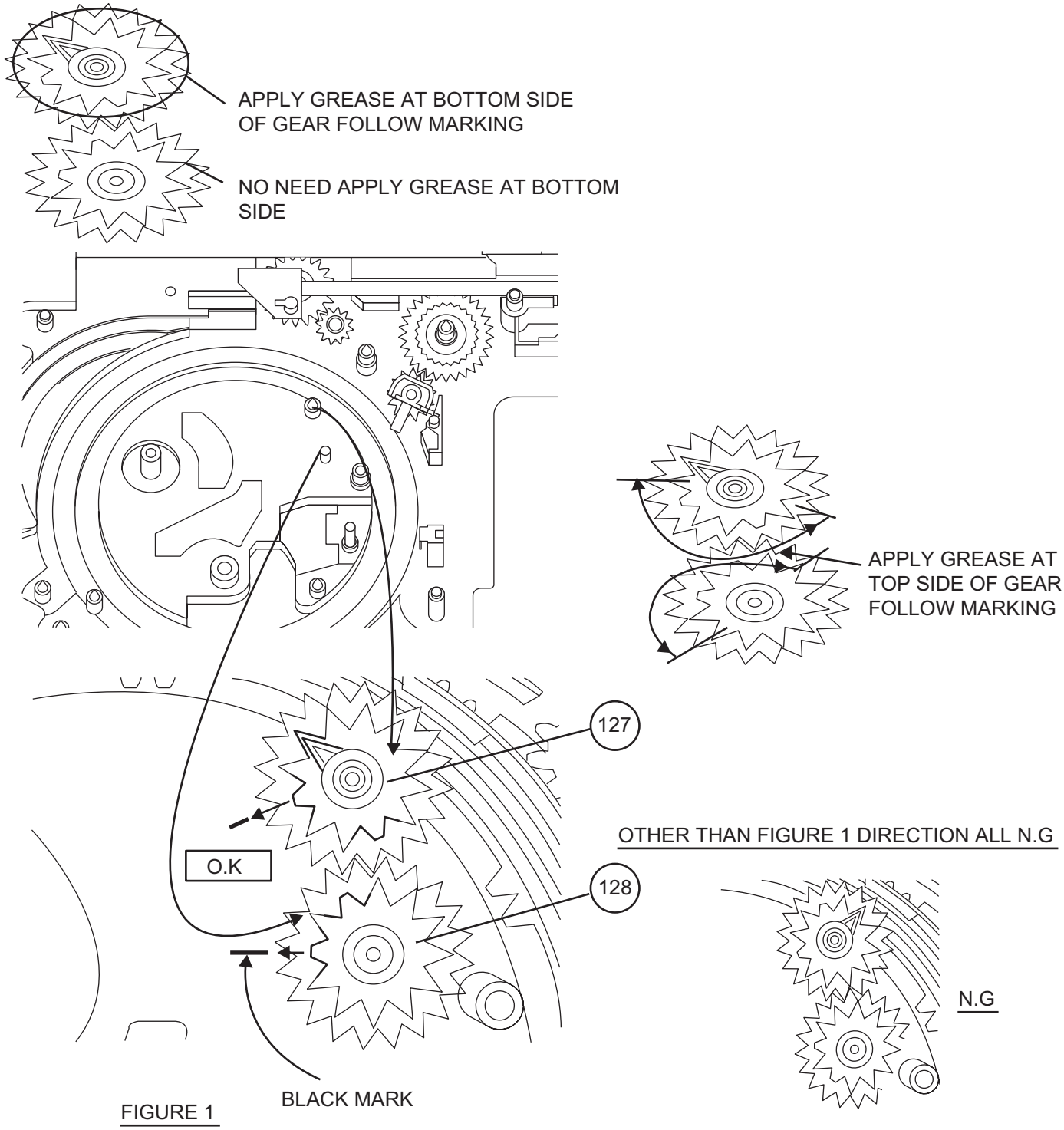
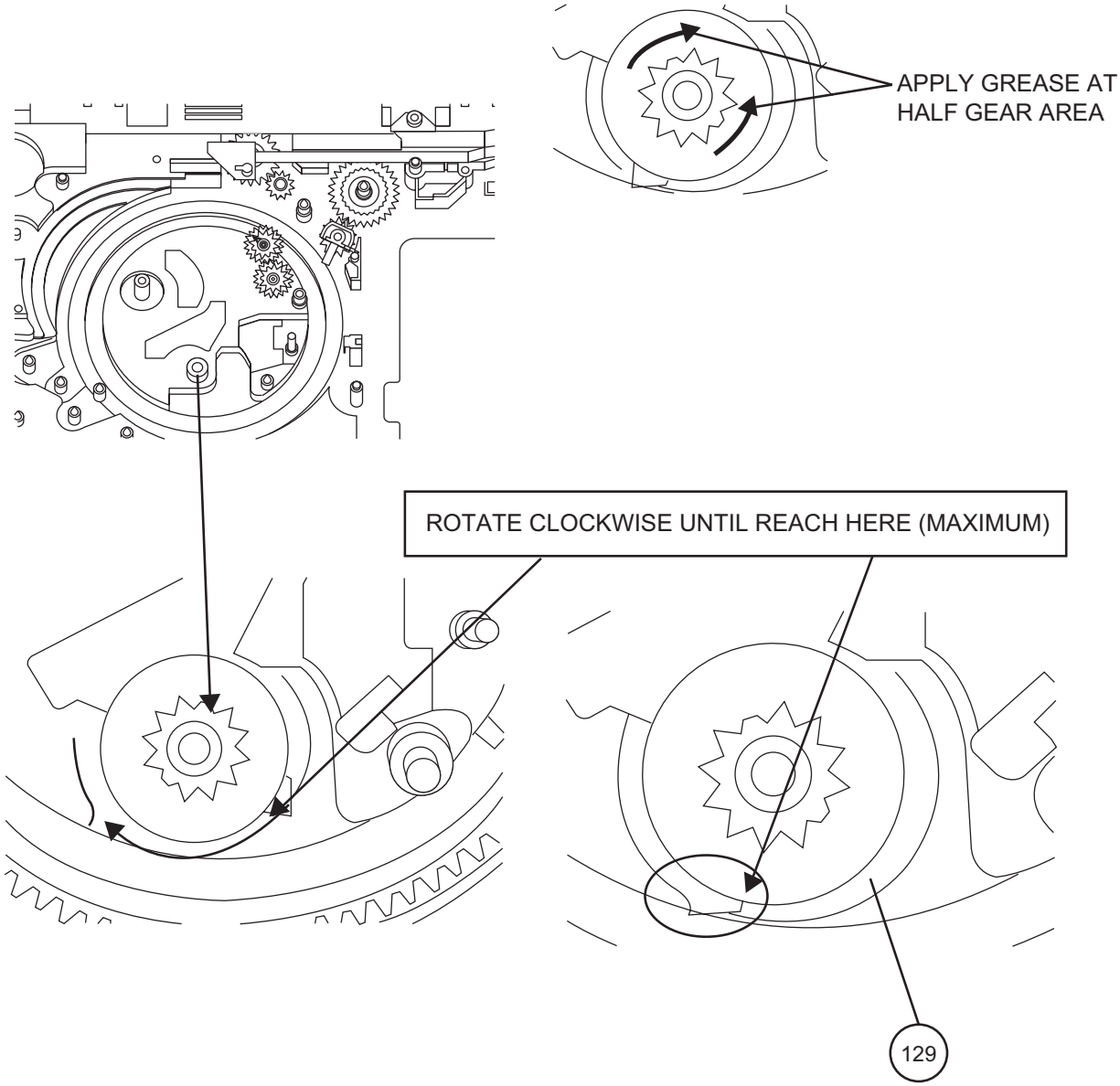
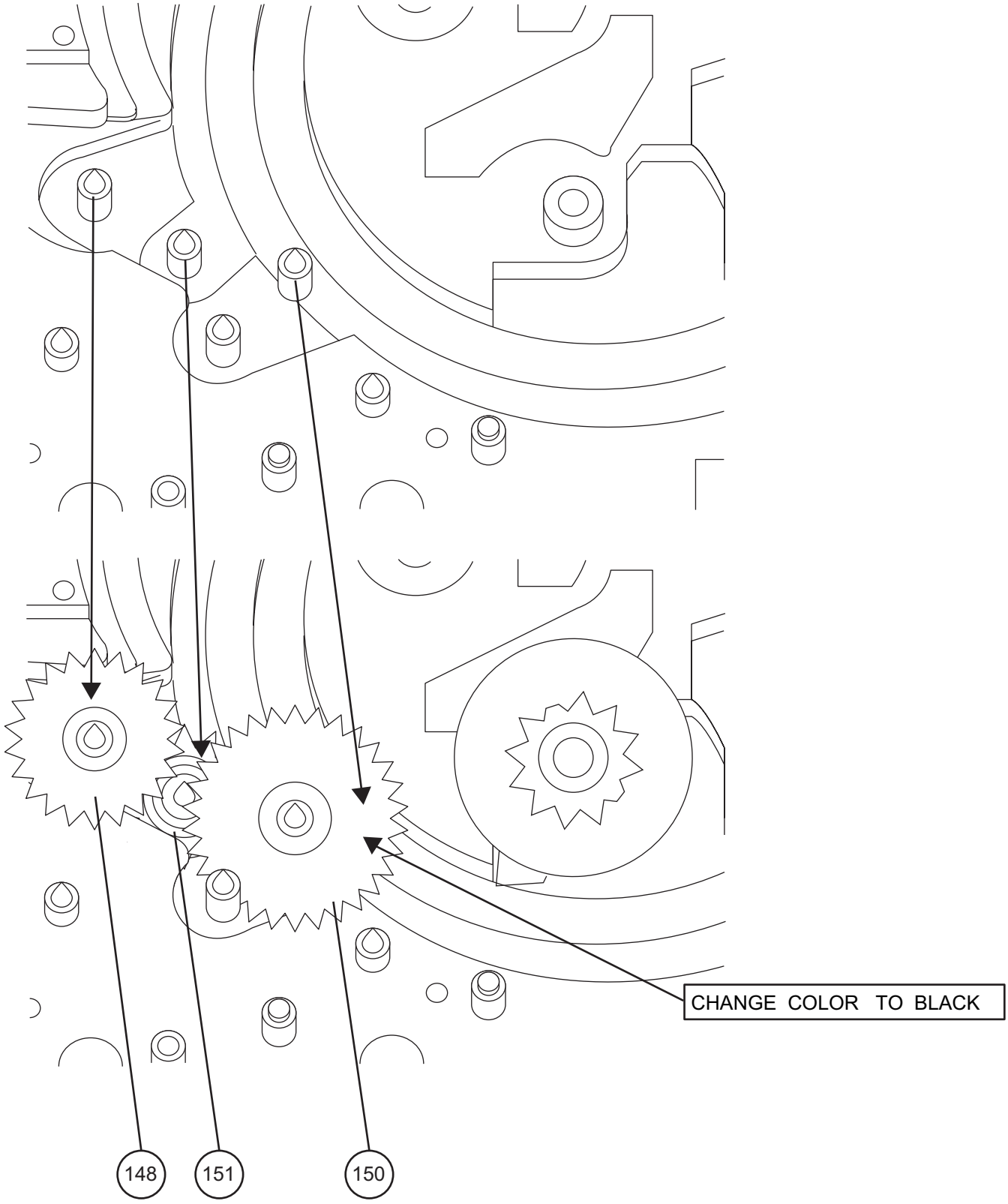

APPLY GREASE AT BOTTOM SIDE OF GEAR FOLLOW MARKING
NO NEED APPLY GREASE AT BOTTOM SIDE
APPLY GREASE AT TOP SIDE OF GEAR FOLLOW MARKING
127
128
O.K
OTHER THAN FIGURE 1 DIRECTION ALL N.G
N.G
BLACK MARK

FIGURE 1

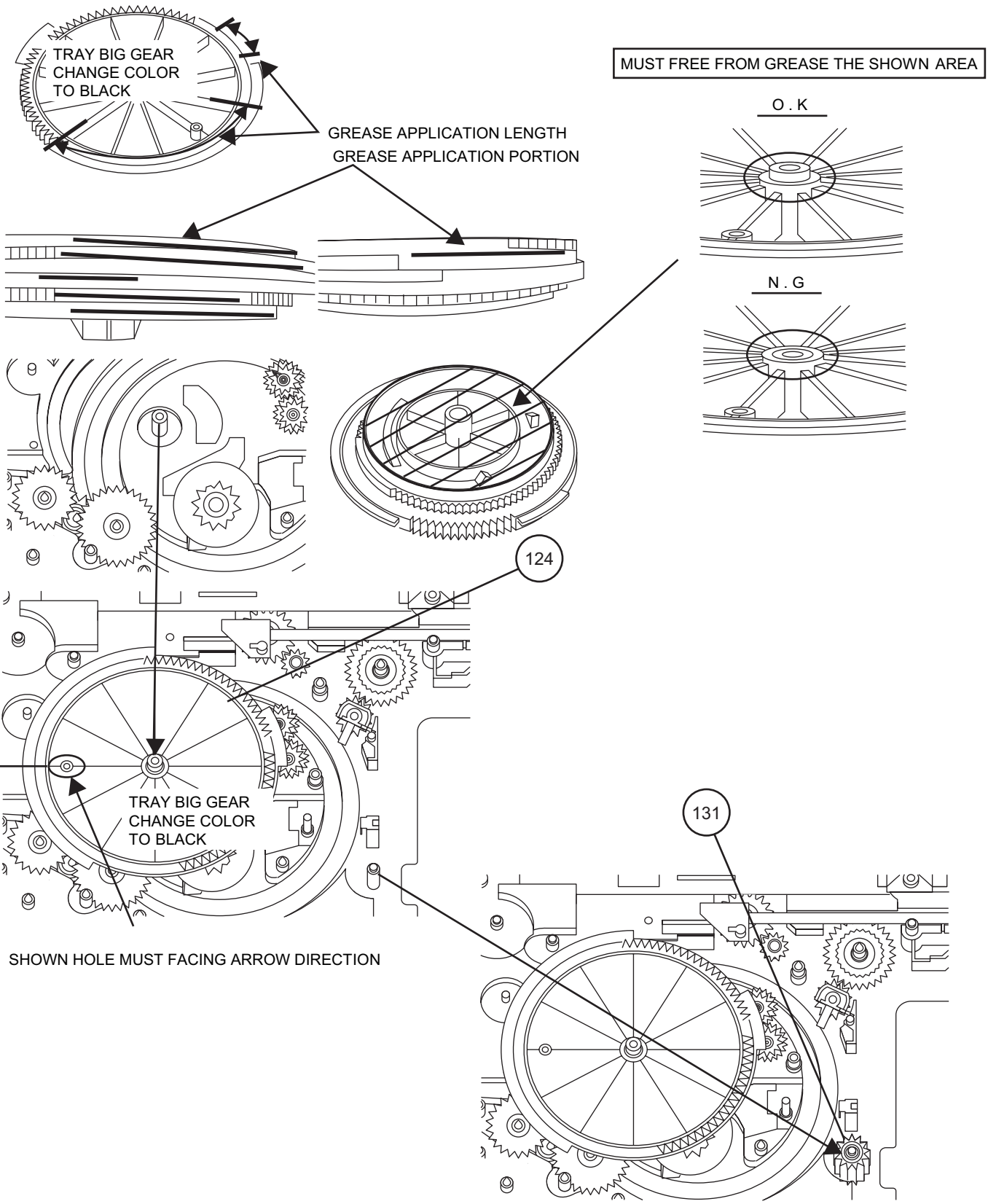
6

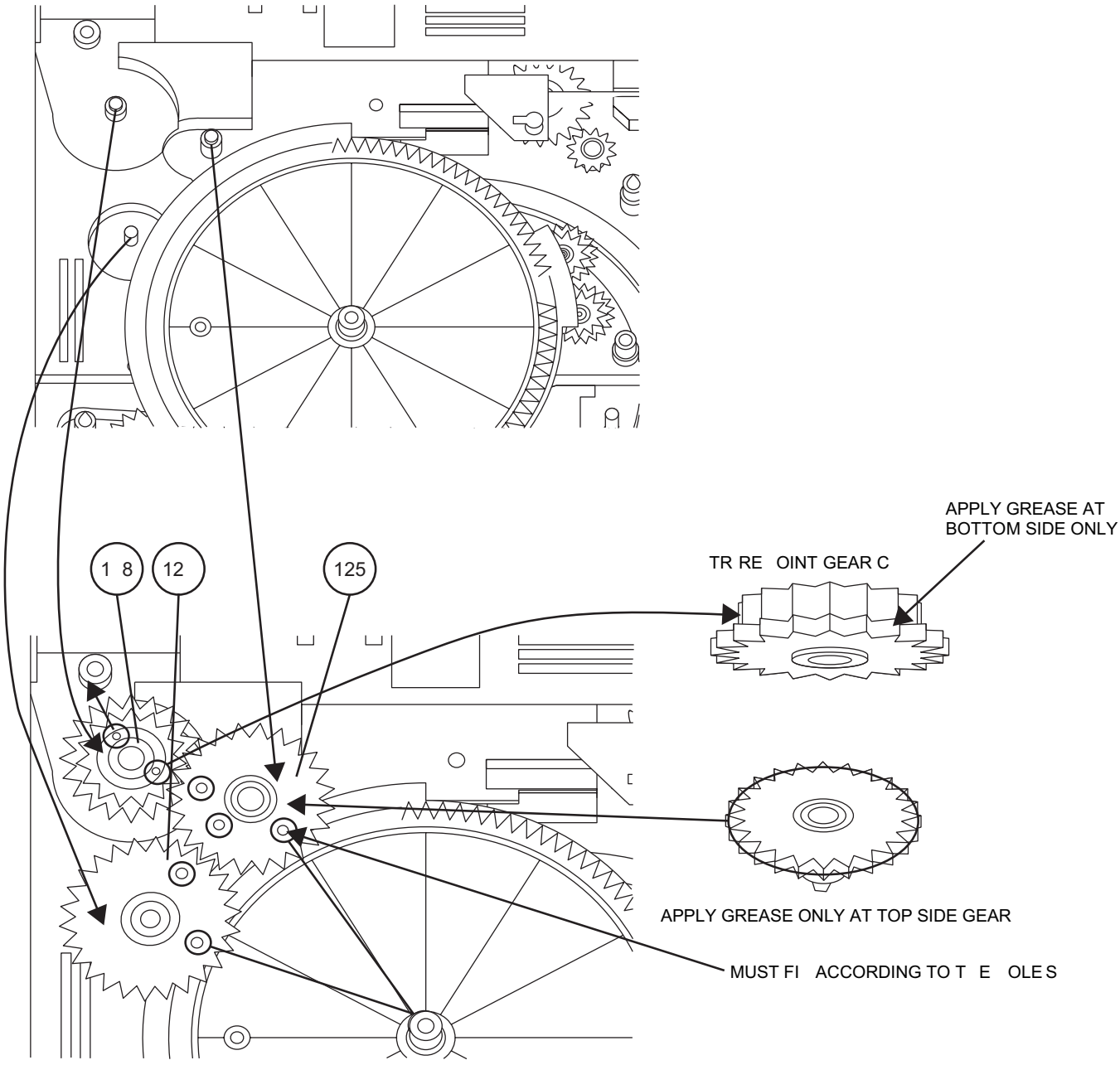

APPLY GREASE AT
HALF GEAR AREA
ROTATE CLOCKWISE UNTIL REACH HERE (MAXIMUM)
129

7

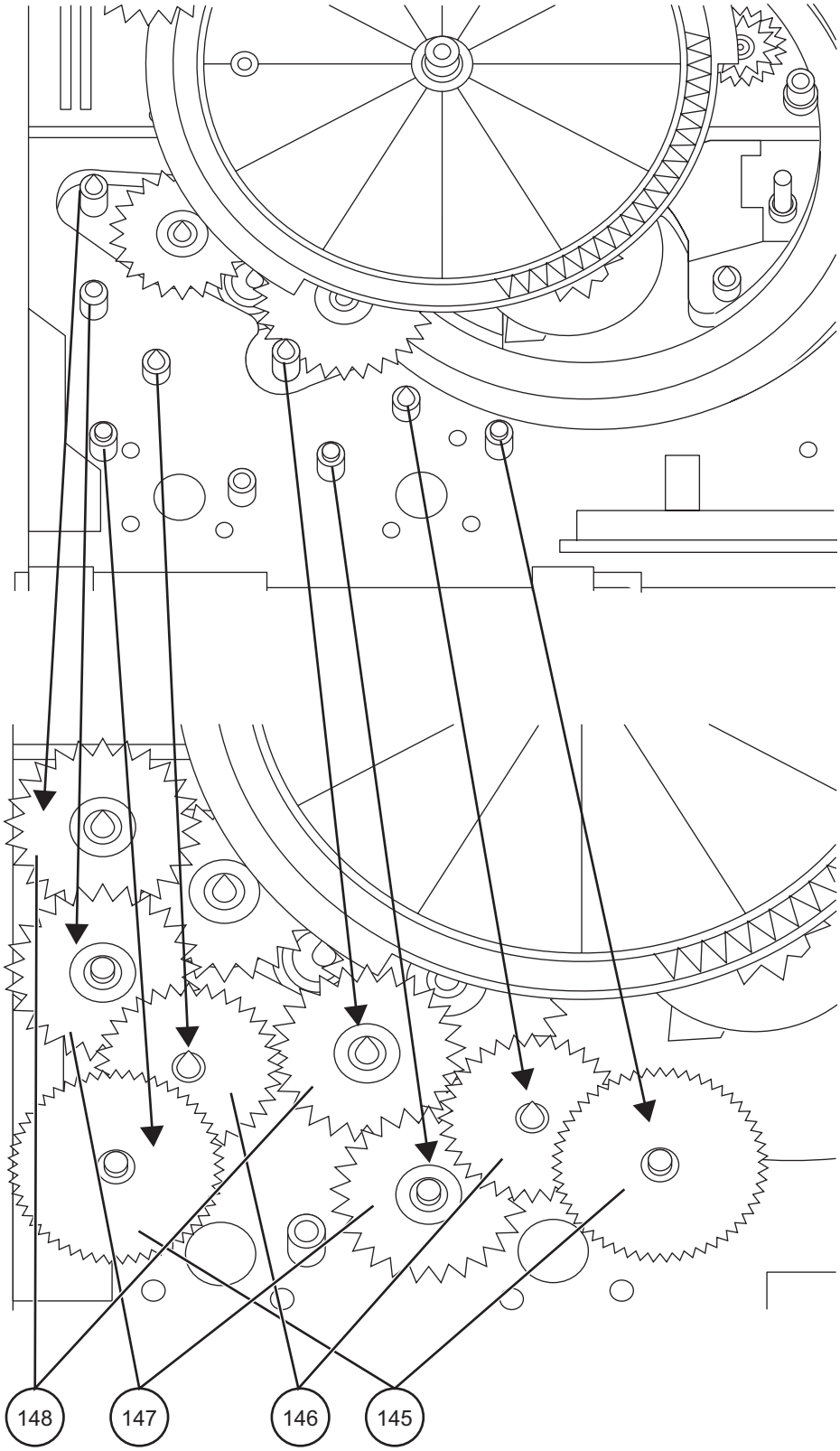


8

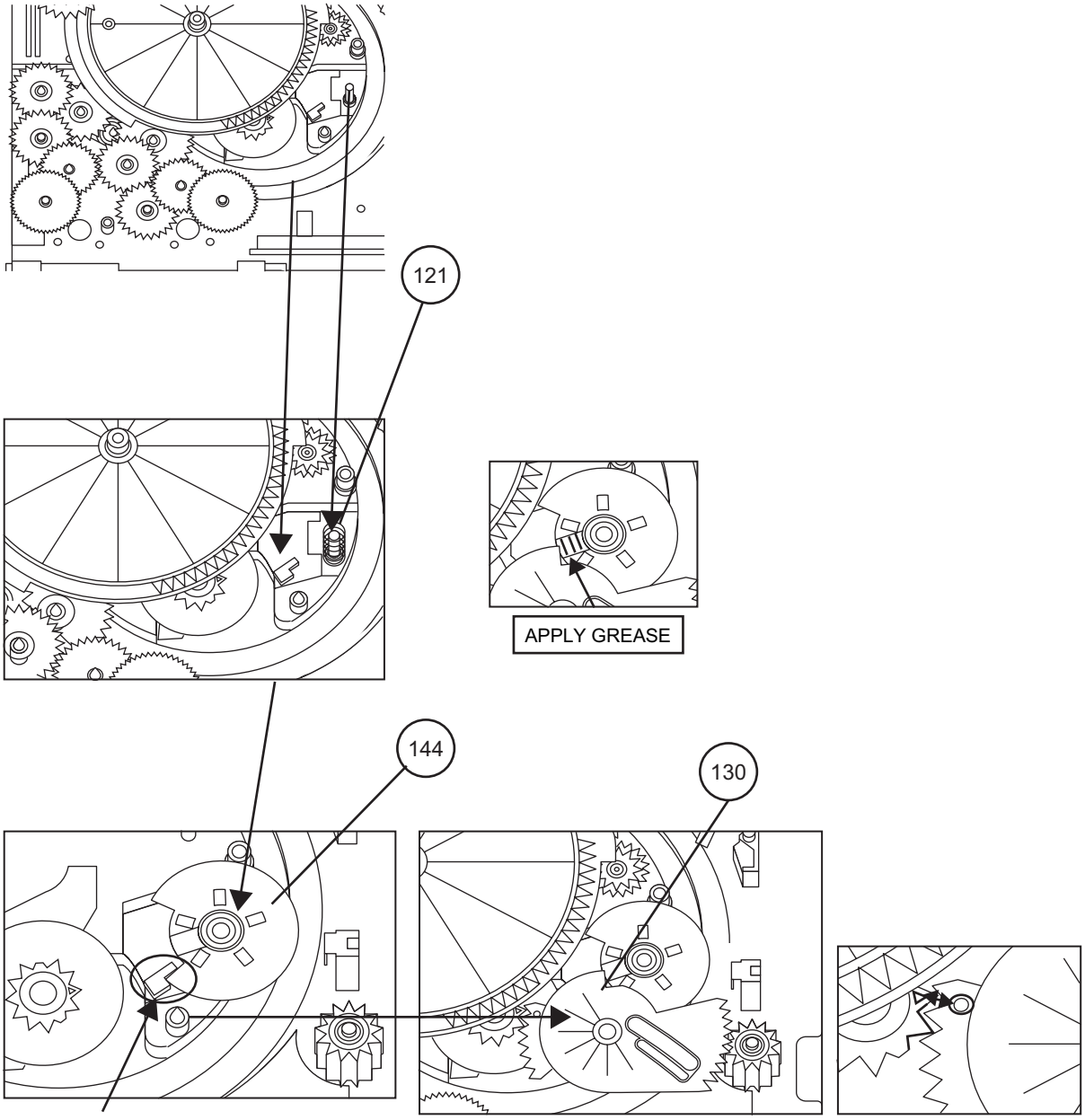

TRAY BIG GEAR
CHANGE COLOR
TO BLACK
GREASE APPLICATION LENGTH
GREASE APPLICATION PORTION
MUST FREE FROM GREASE THE SHOWN AREA
O . K
N . G
124
TRAY BIG GEAR
CHANGE COLOR
TO BLACK
131
SHOWN HOLE MUST FACING ARROW DIRECTION


APPLY GREASE AT
BOTTOM SIDE ONLY
1 8
12
125
TR RE OINT GEAR C
APPLY GREASE ONLY AT TOP SIDE GEAR
MUST FI ACCORDING TO T E OLE S

10

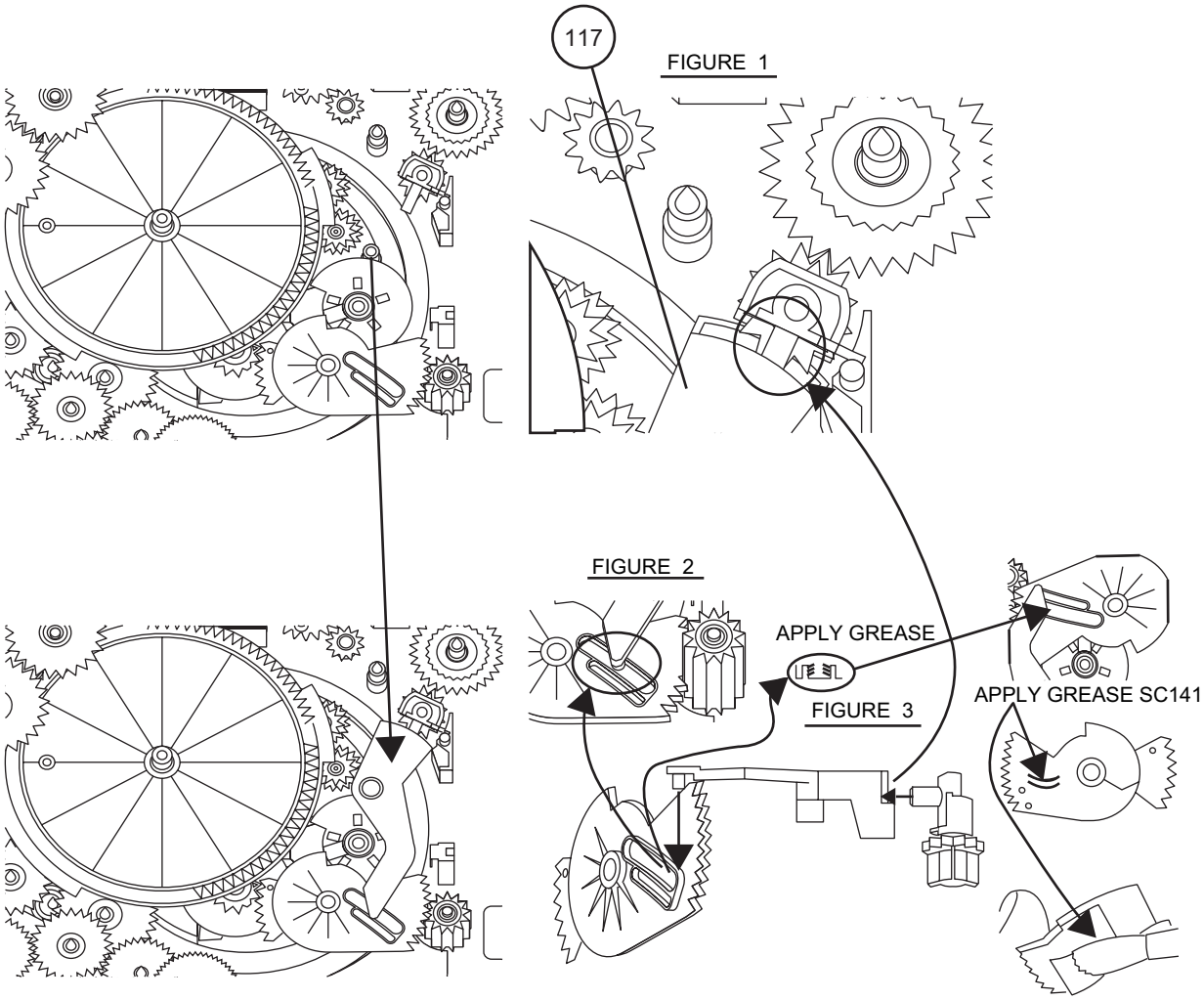


11

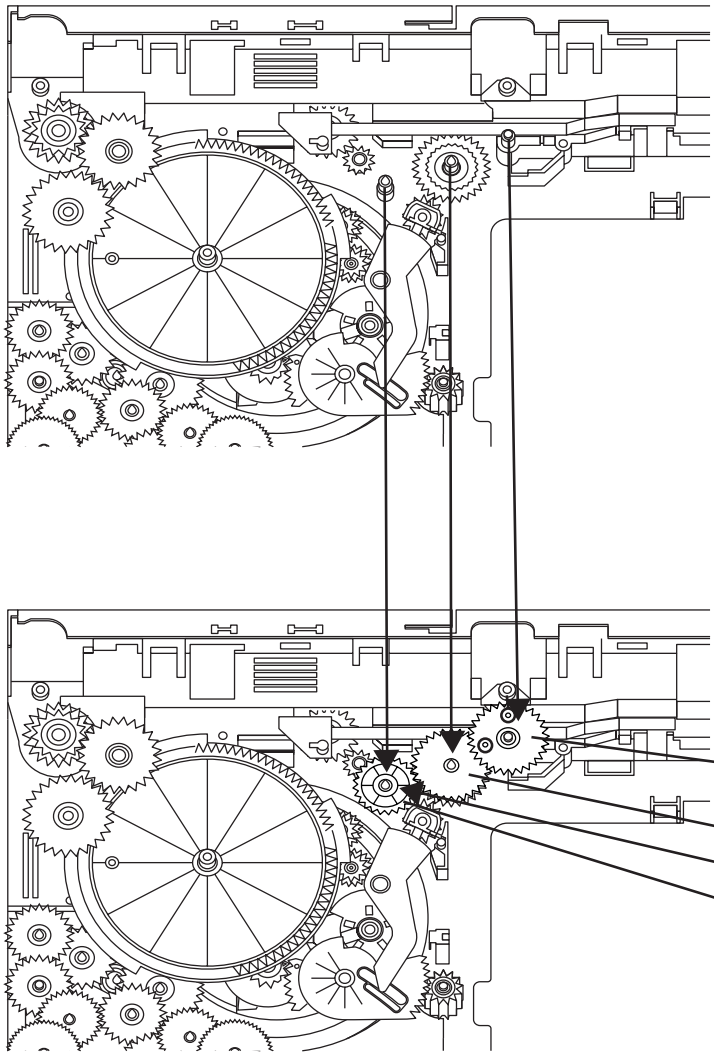


WHEN FIXING ITEM 2 MUST FOLLOW AS SHOWN

12

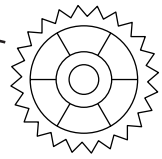

117
FIGURE 1
FIGURE 2
APPLY GREASE
FIGURE 3
APPLY GREASE SC141

13



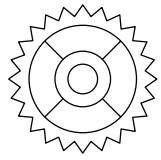
ITEM 2 , 3 MUST APPLY GREASE ON TOP SIDE GEAR ONLY

GEAR 112
O . K



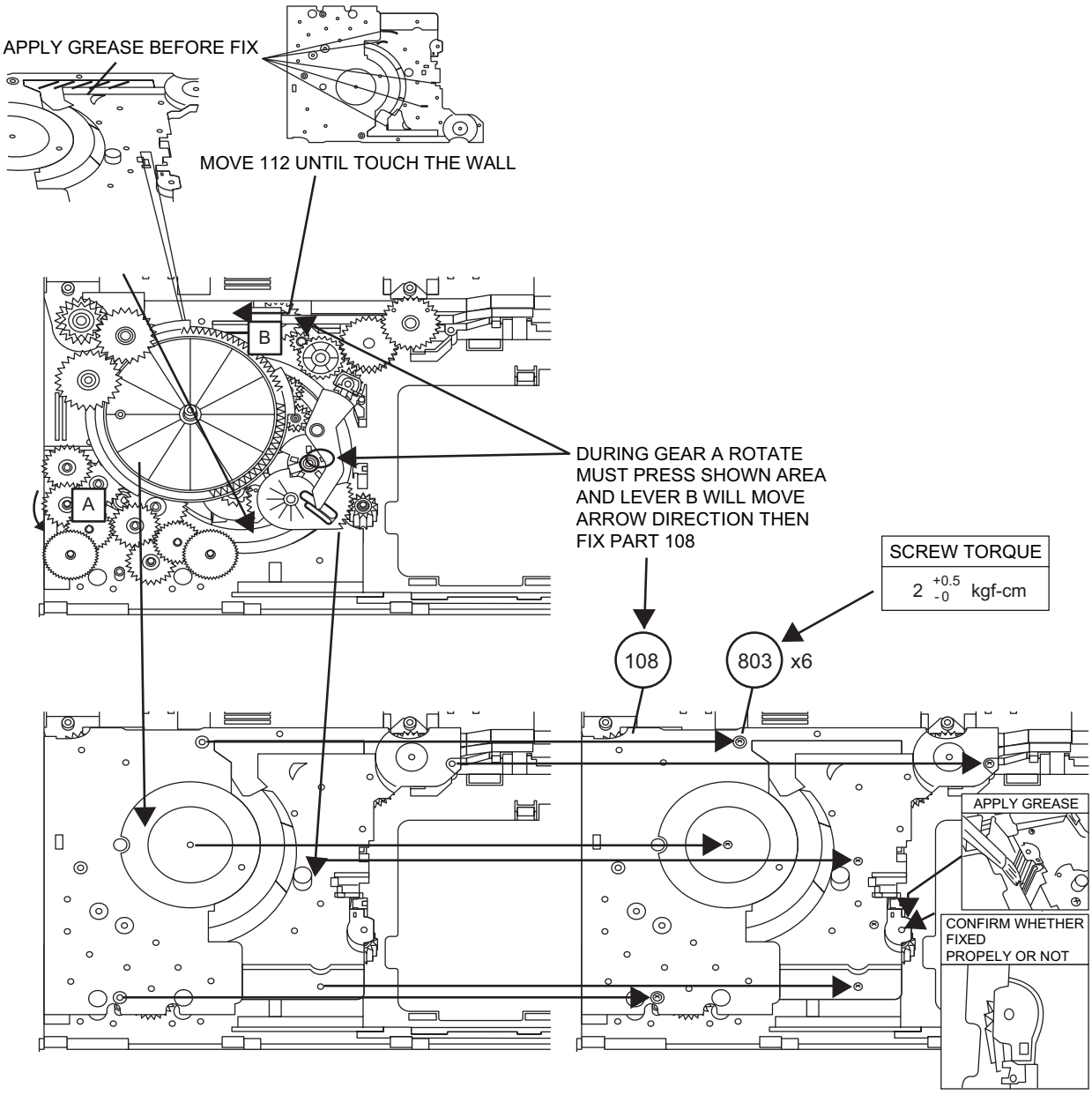
TOP VIEW AFTER ASSY

GEAR 112
N . G

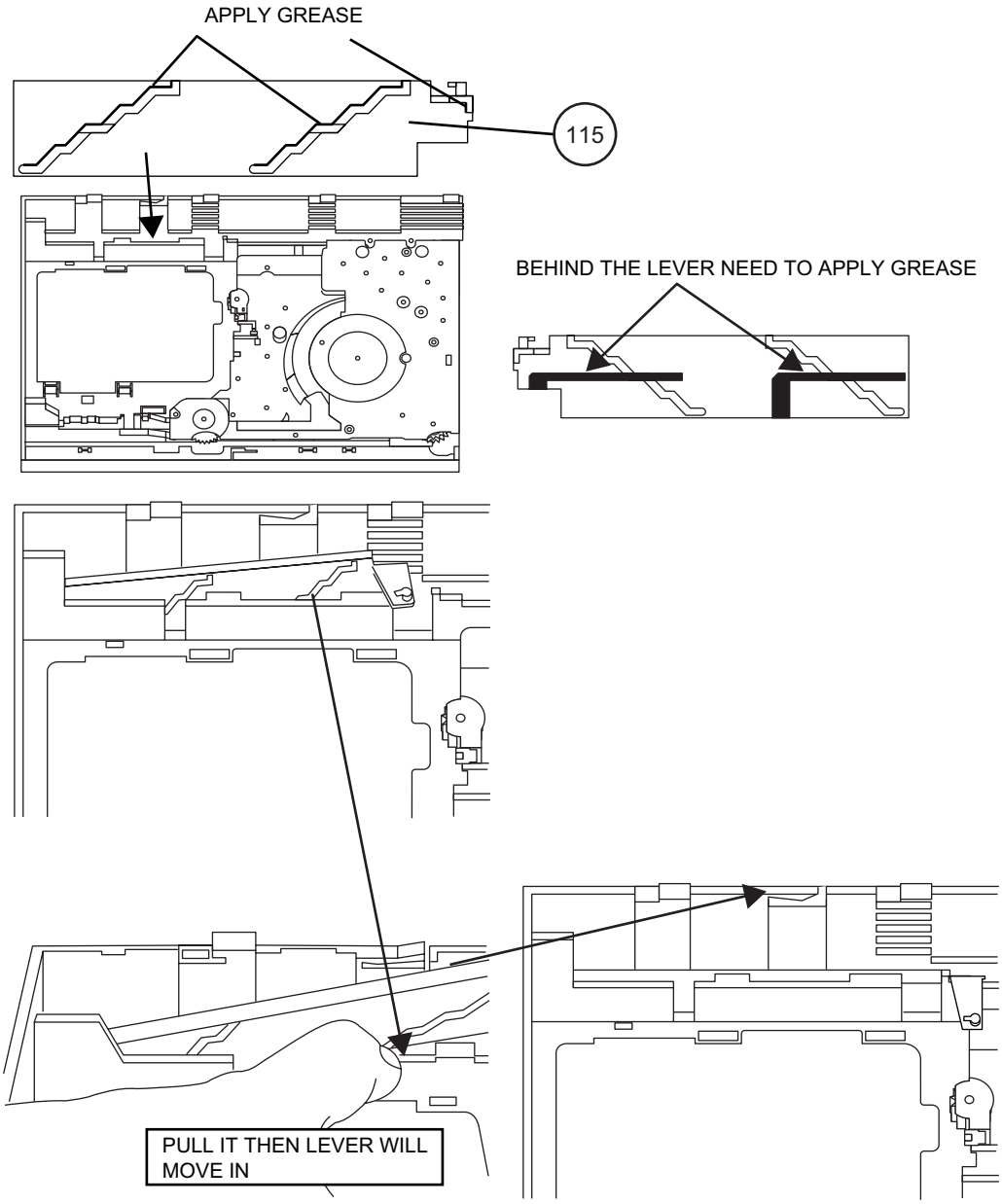


FIX REVERSE N.G

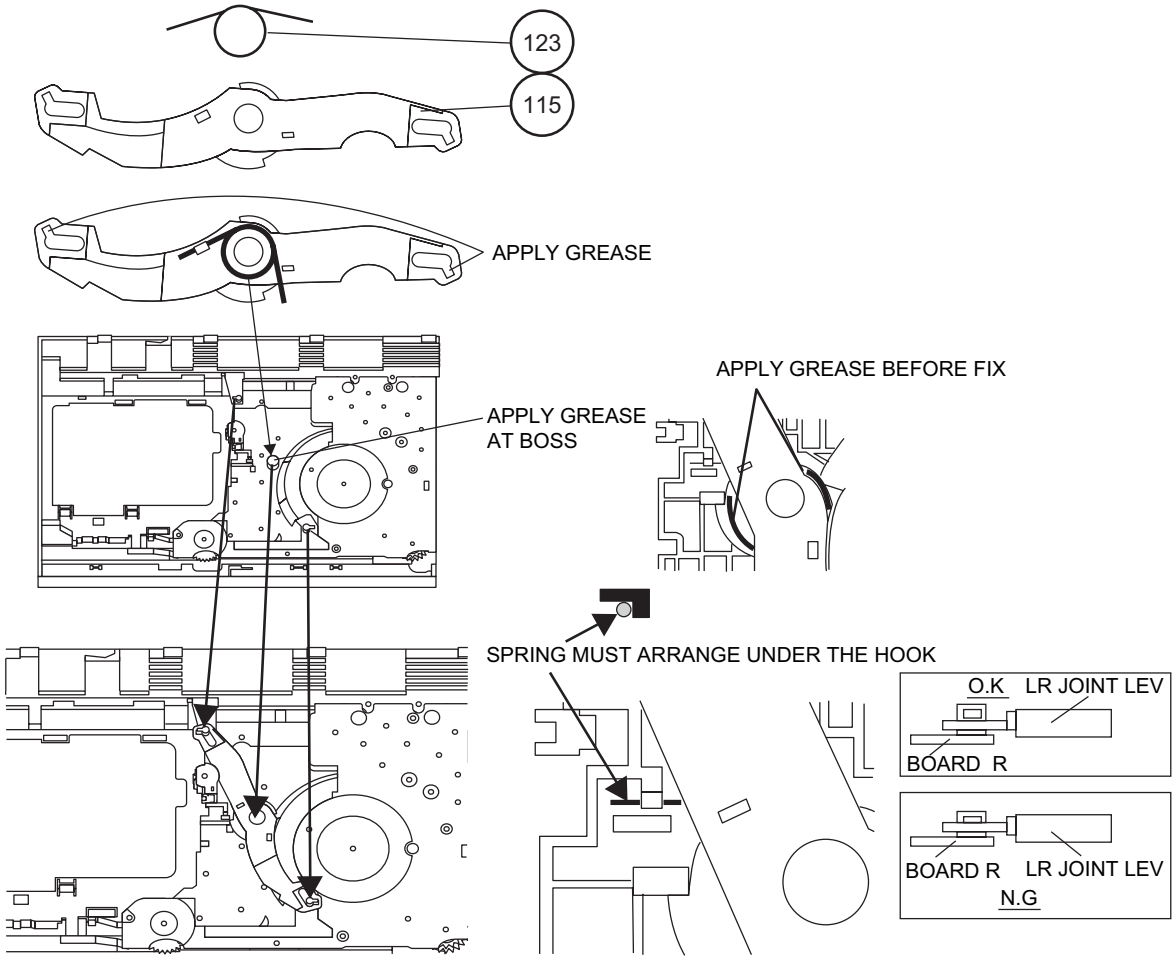
14


APPLY GREASE BEFORE FIX
MOVE 112 UNTIL TOUCH THE WALL
B
A
DURING GEAR A ROTATE
MUST PRESS SHOWN AREA
AND LEVER B WILL MOVE
ARROW DIRECTION THEN
FIX PART 108
SCREW TORQUE
2 +0.5 -0 kgf-cm
108
803 x6
APPLY GREASE
CONFIRM WHETHER
FIXED
PROPELY OR NOT

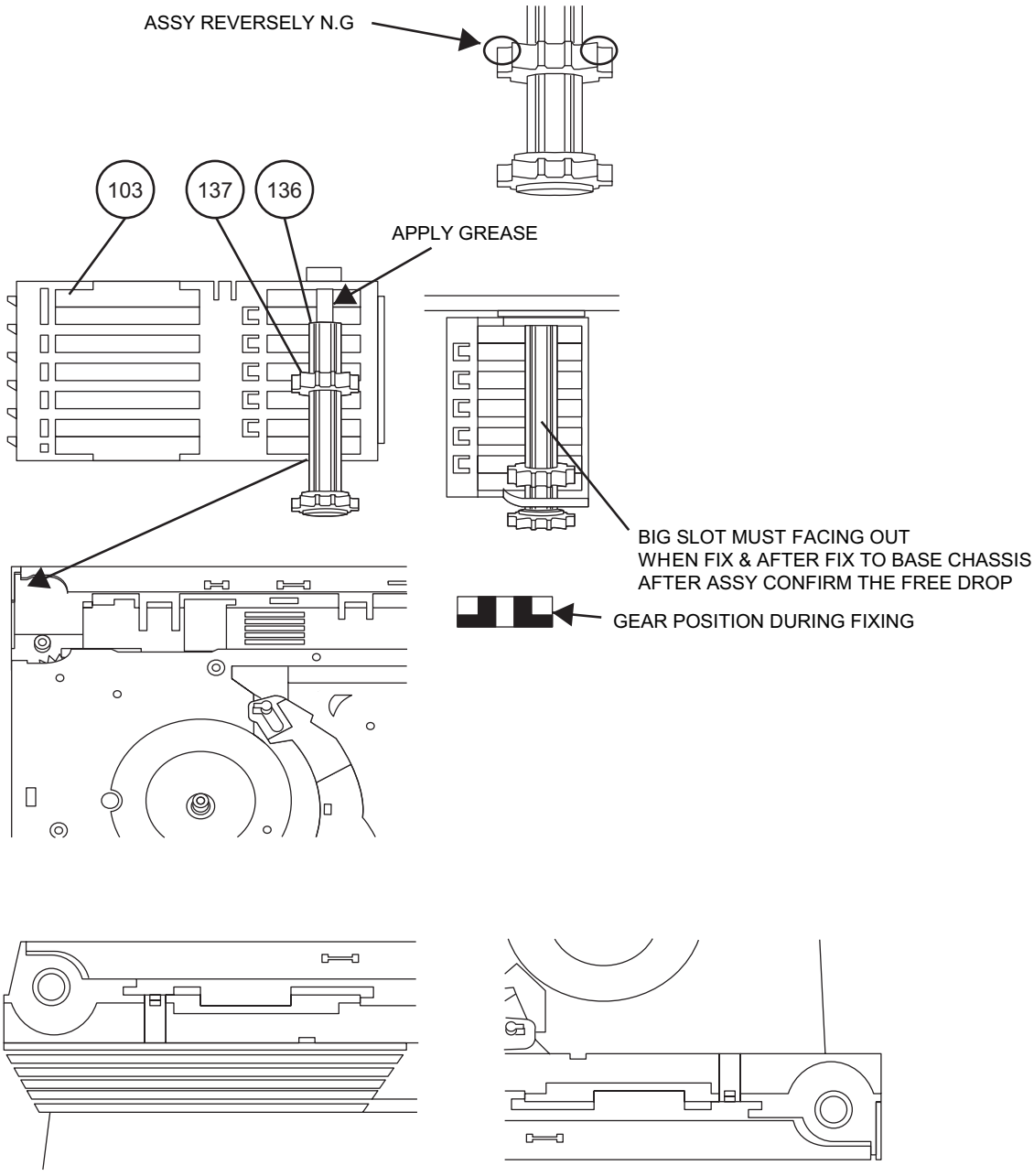
15


APPLY GREASE
115
BEHIND THE LEVER NEED TO APPLY GREASE
PULL IT THEN LEVER WILL MOVE IN

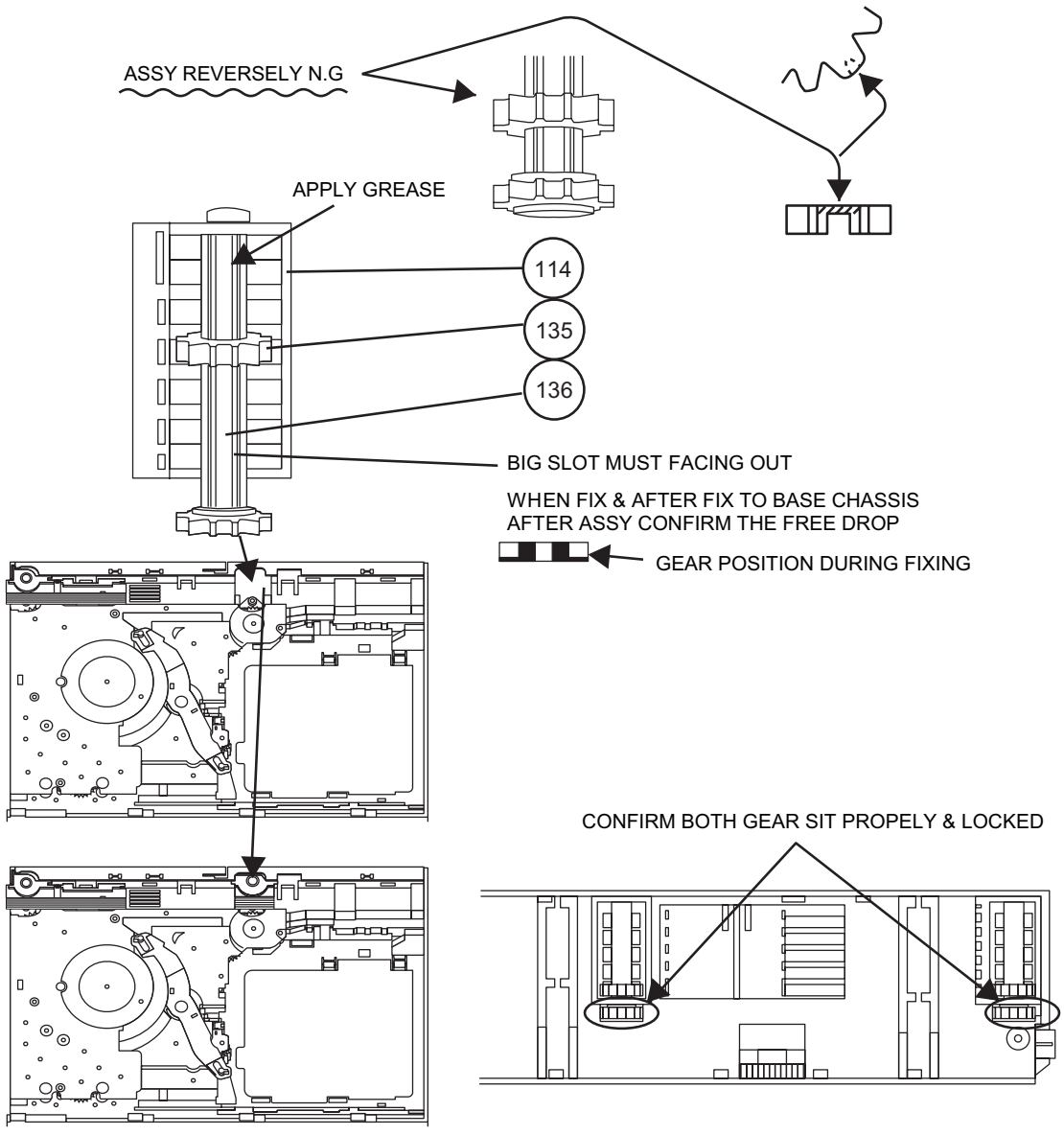
16


123
115
APPLY GREASE
APPLY GREASE BEFORE FIX
APPLY GREASE
AT BOSS
SPRING MUST ARRANGE UNDER THE HOOK
O.K
LR JOINT LEV
BOARD R
BOARD R
LR JOINT LEV
N.G

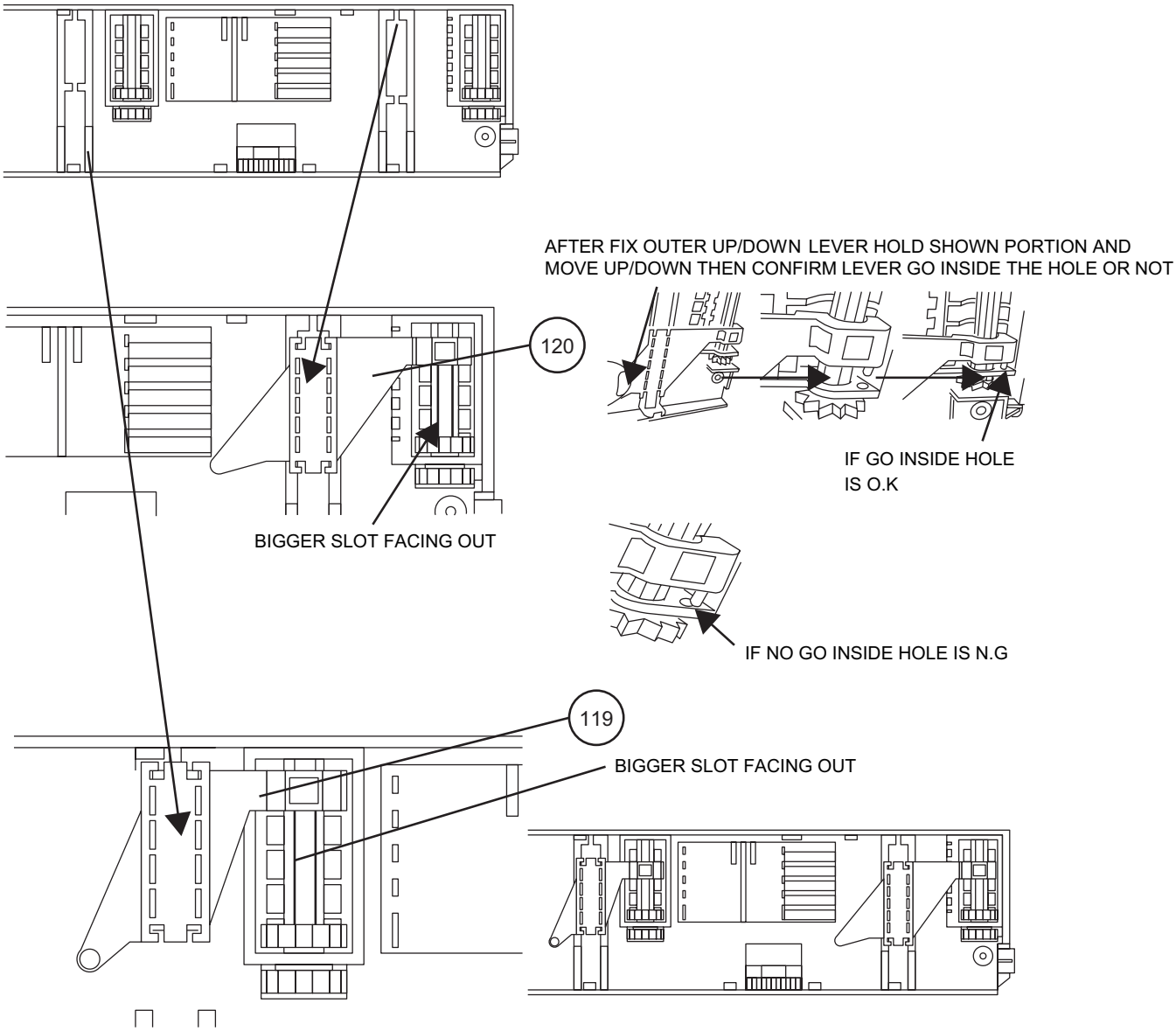
17


ASSY REVERSELY N.G
103
137
136
APPLY GREASE
BIG SLOT MUST FACING OUT
WHEN FIX & AFTER FIX TO BASE CHASSIS
AFTER ASSY CONFIRM THE FREE DROP
GEAR POSITION DURING FIXING

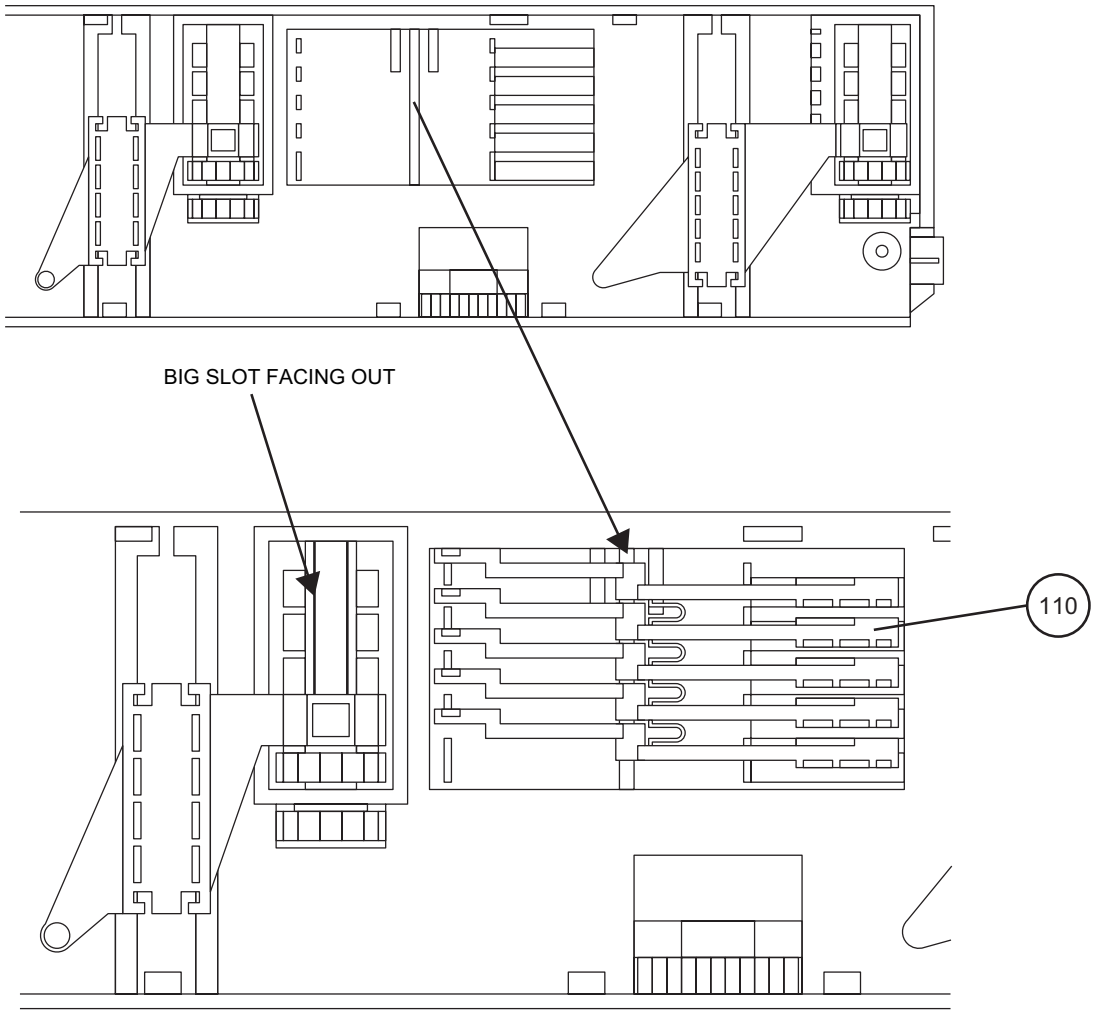
18


ASSY REVERSELY N.G
APPLY GREASE
114
135
136
BIG SLOT MUST FACING OUT
WHEN FIX & AFTER FIX TO BASE CHASSIS
AFTER ASSY CONFIRM THE FREE DROP
GEAR POSITION DURING FIXING
CONFIRM BOTH GEAR SIT PROPELY & LOCKED

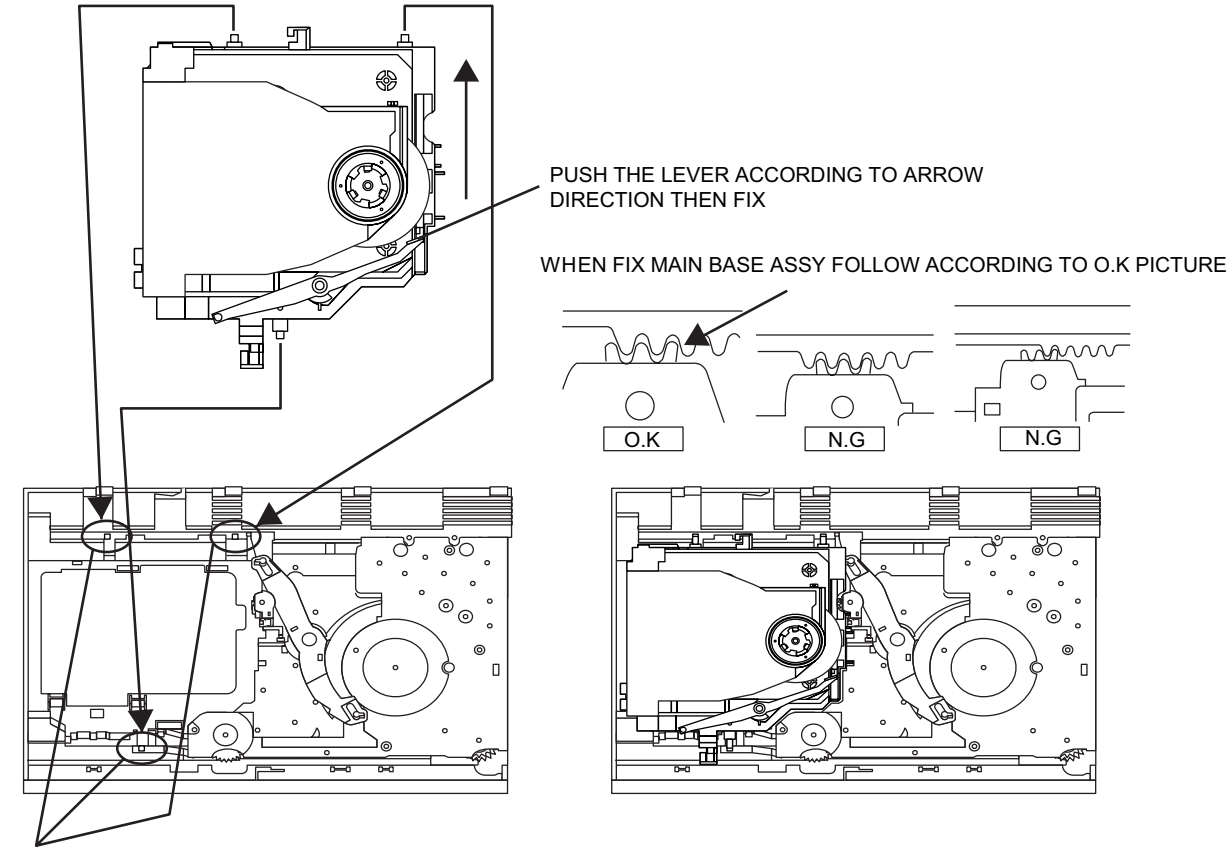
19


AFTER FIX OUTER UP/DOWN LEVER HOLD SHOWN PORTION AND
MOVE UP/DOWN THEN CONFIRM LEVER GO INSIDE THE HOLE OR NOT
120
IF GO INSIDE HOLE
IS O.K
BIGGER SLOT FACING OUT
IF NO GO INSIDE HOLE IS N.G
119
BIGGER SLOT FACING OUT

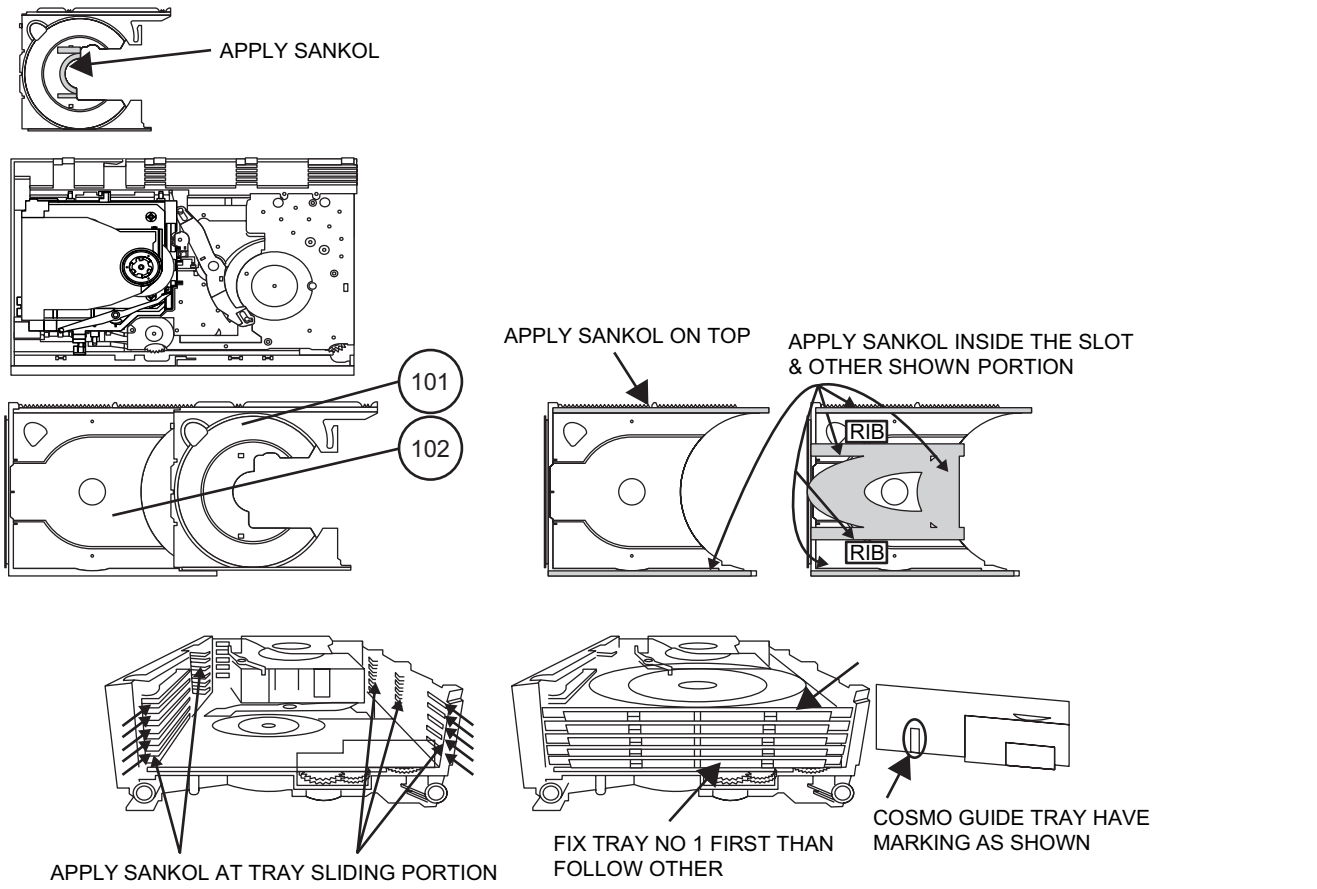
20



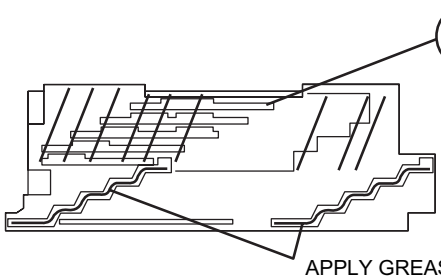
21

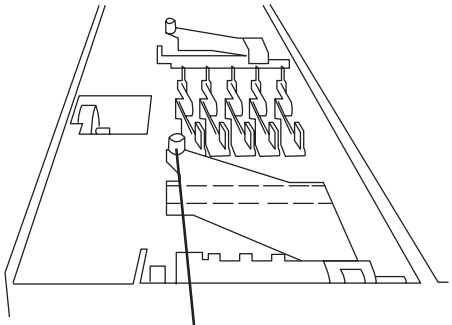

PUSH THE LEVER ACCORDING TO ARROW
DIRECTION THEN FIX
WHEN FIX MAIN BASE ASSY FOLLOW ACCORDING TO O.K PICTURE
O.K
N.G
N.G
MAKE SURE MECHA HOLDER SHAFT FIX PROPELY TO LEVER

22

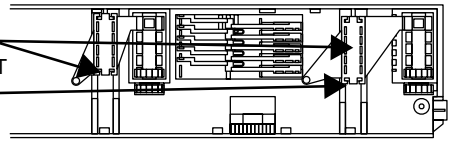

APPLY SANKOL
101
102
APPLY SANKOL ON TOP
APPLY SANKOL INSIDE THE SLOT
& OTHER SHOWN PORTION
RIB
RIB
APPLY SANKOL AT TRAY SLIDING PORTION
FIX TRAY NO 1 FIRST THAN
FOLLOW OTHER
COSMO GUIDE TRAY HAVE
MARKING AS SHOWN

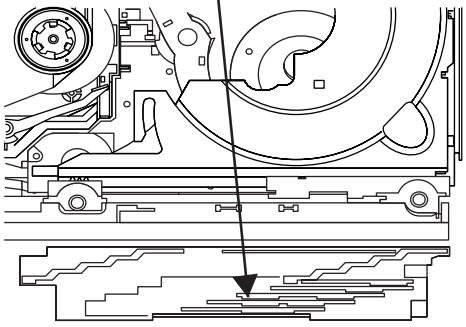
23

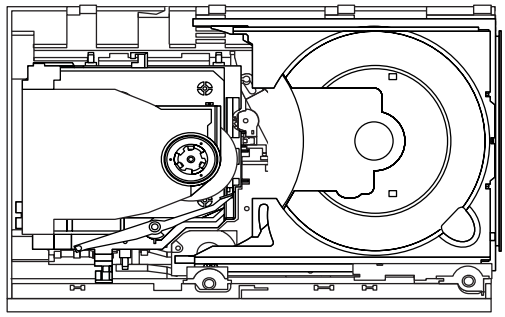




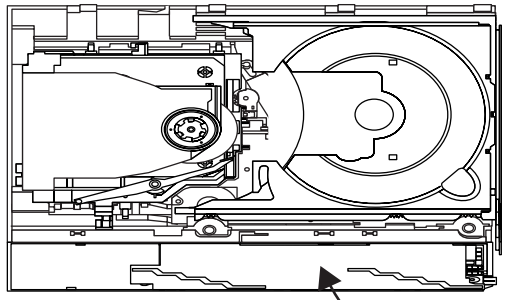
WHEN FIX GEAR UP/ DOWN BOARD THE TWO LEVER MUST AT PARALLEL LINE & POSITION AT TOP MAX SIDE



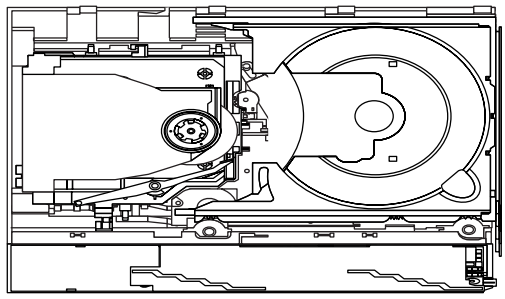




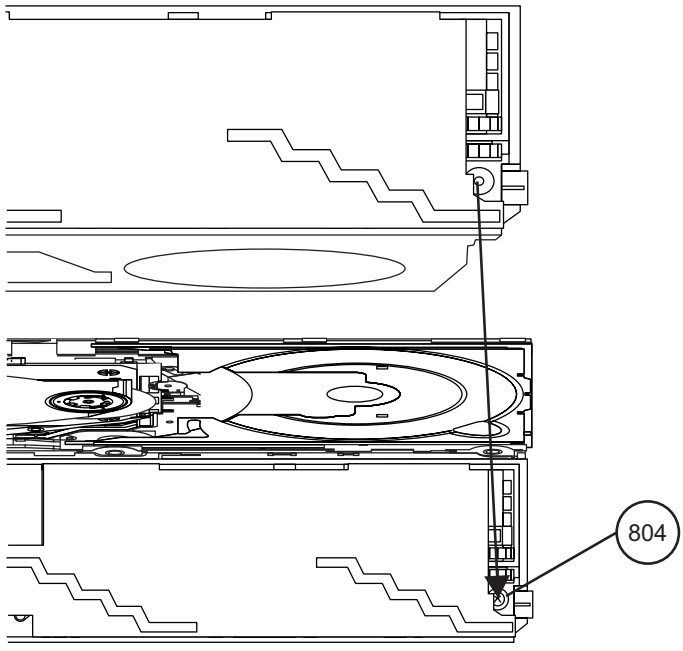
AFTER ASSY GEAR UP/DOWN BOARD



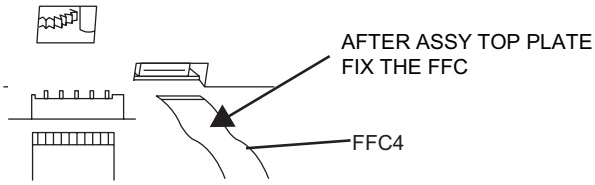
24

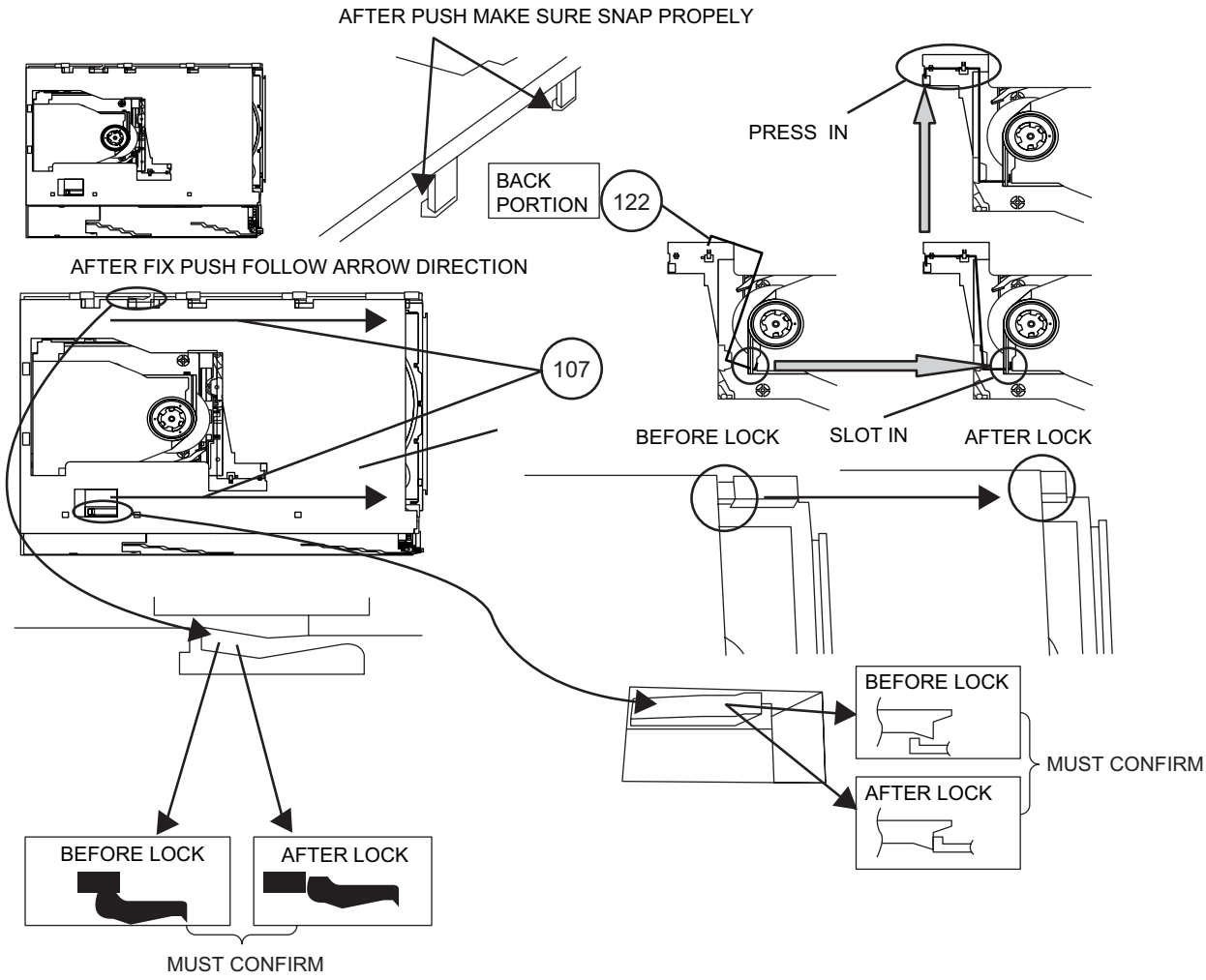


SCREW TORQUE
$3\ ^{+0.5}_{-0}$ kgf-cm

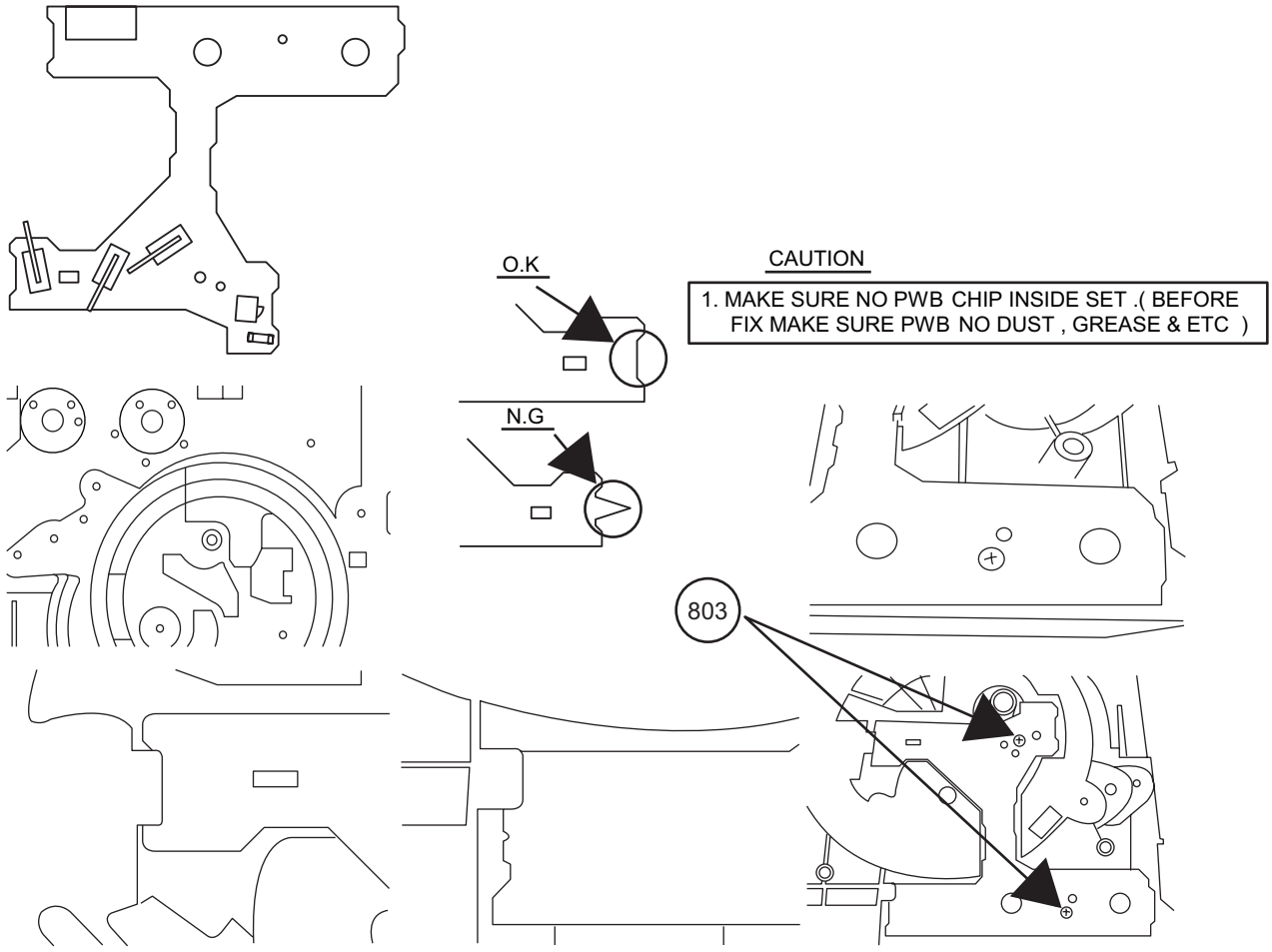


25

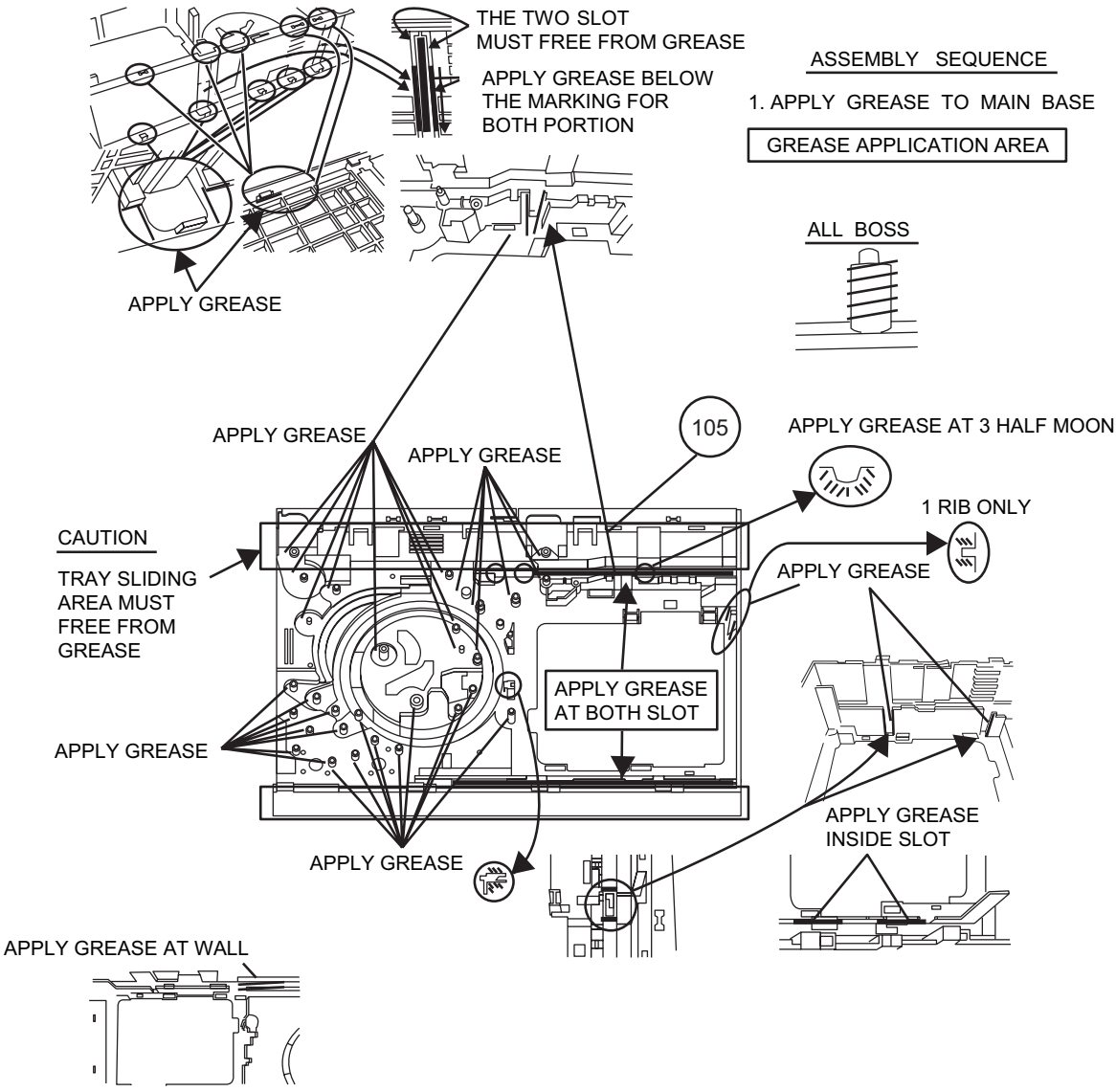

AFTER ASSY TOP PLATE
FIX THE FFC
FFC4


AFTER PUSH MAKE SURE SNAP PROPELY
PRESS IN
BACK
PORTION
122
AFTER FIX PUSH FOLLOW ARROW DIRECTION
107
BEFORE LOCK
SLOT IN
AFTER LOCK
BEFORE LOCK
AFTER LOCK
MUST CONFIRM
BEFORE LOCK
AFTER LOCK
MUST CONFIRM

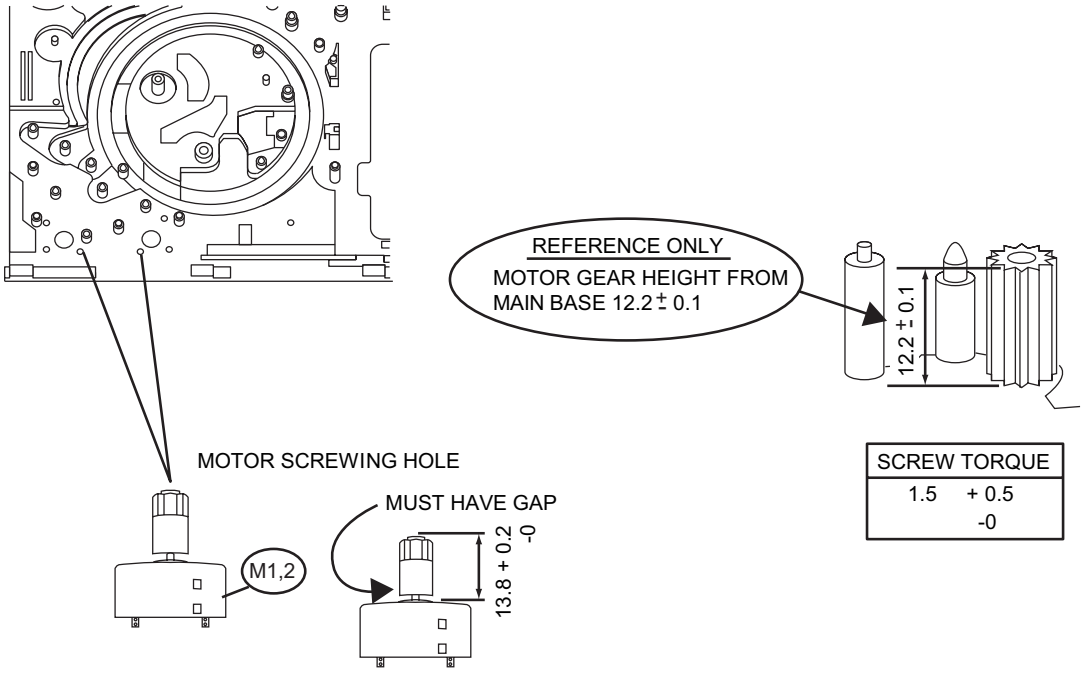
26

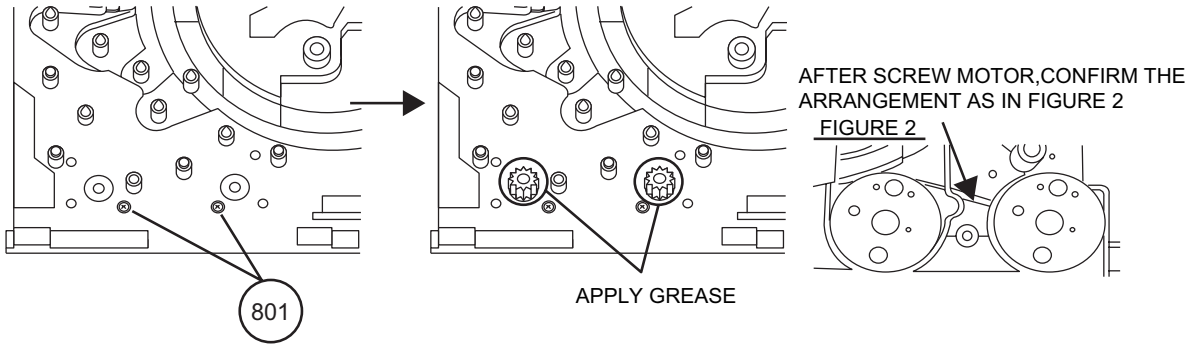

O.K
N.G
CAUTION
1. MAKE SURE NO PWB CHIP INSIDE SET .(BEFORE FIX MAKE SURE PWB NO DUST , GREASE & ETC)
803

27

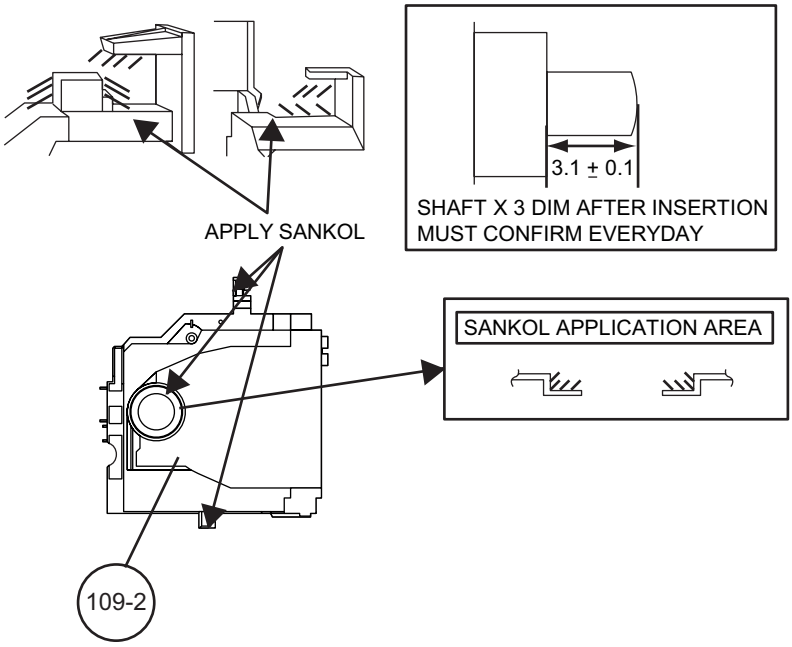

THE TWO SLOT
MUST FREE FROM GREASE
APPLY GREASE BELOW
THE MARKING FOR
BOTH PORTION
ASSEMBLY SEQUENCE
1. APPLY GREASE TO MAIN BASE
GREASE APPLICATION AREA
ALL BOSS
APPLY GREASE
APPLY GREASE
APPLY GREASE
105
APPLY GREASE AT 3 HALF MOON
1 RIB ONLY
CAUTION
TRAY SLIDING
AREA MUST
FREE FROM
GREASE
APPLY GREASE
APPLY GREASE
APPLY GREASE
AT BOTH SLOT
APPLY GREASE
APPLY GREASE
APPLY GREASE
INSIDE SLOT
APPLY GREASE AT WALL

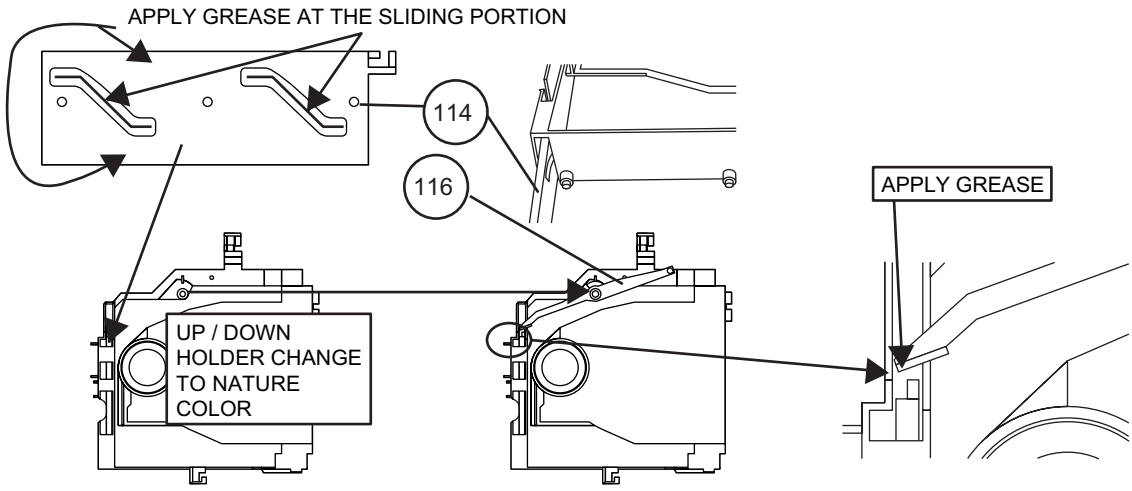
28


REFERENCE ONLY
MOTOR GEAR HEIGHT FROM
MAIN BASE 12.2 ± 0.1
12.2 ± 0.1
MOTOR SCREWING HOLE
M1,2
MUST HAVE GAP
13.8 + 0.2 -0
SCREW TORQUE
1.5 + 0.5 -0

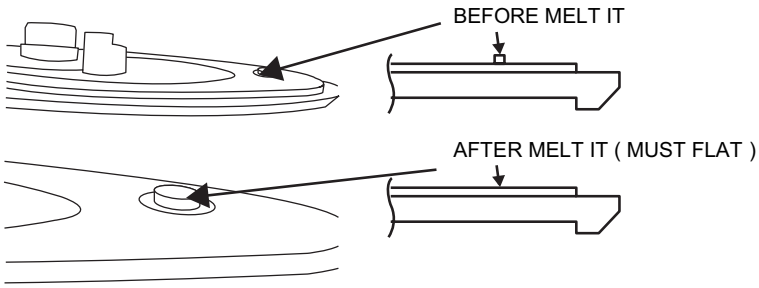

801
APPLY GREASE
AFTER SCREW MOTOR,CONFIRM THE ARRANGEMENT AS IN FIGURE 2
FIGURE 2

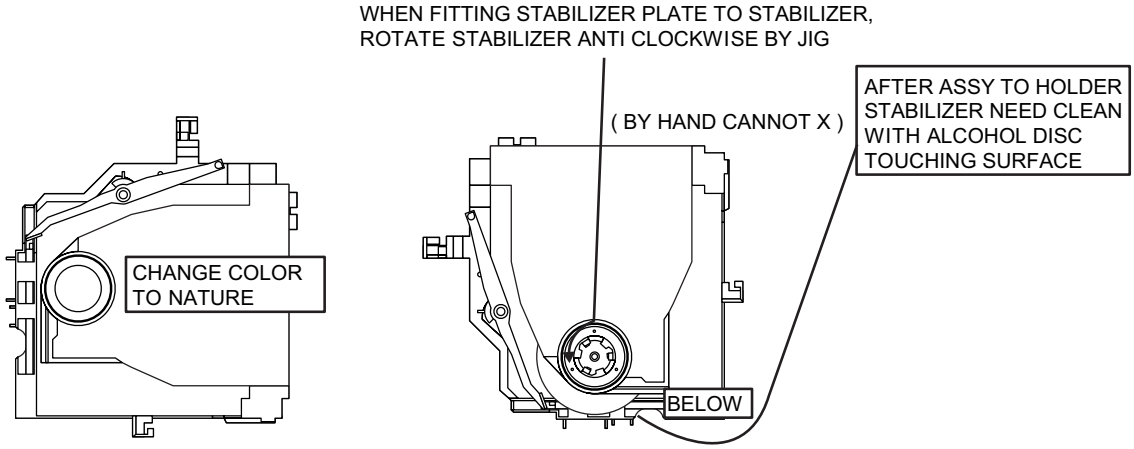
29


3.1 ± 0.1
SHAFT X 3 DIM AFTER INSERTION
MUST CONFIRM EVERYDAY
APPLY SANKOL
SANKOL APPLICATION AREA
109-2

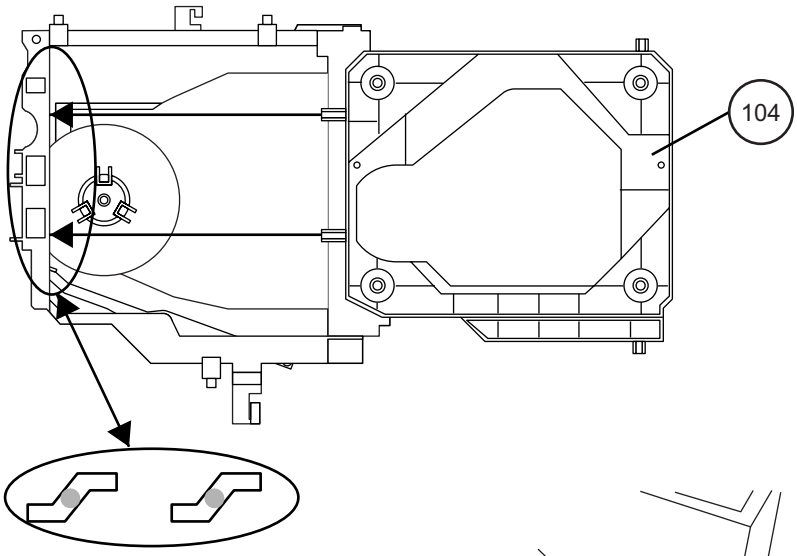

APPLY GREASE AT THE SLIDING PORTION
114
116
APPLY GREASE
UP / DOWN
HOLDER CHANGE
TO NATURE
COLOR

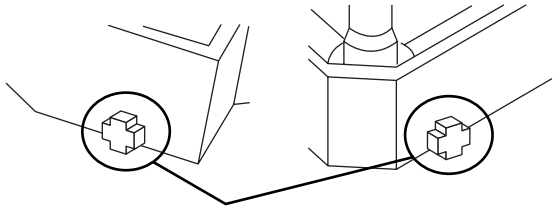
30

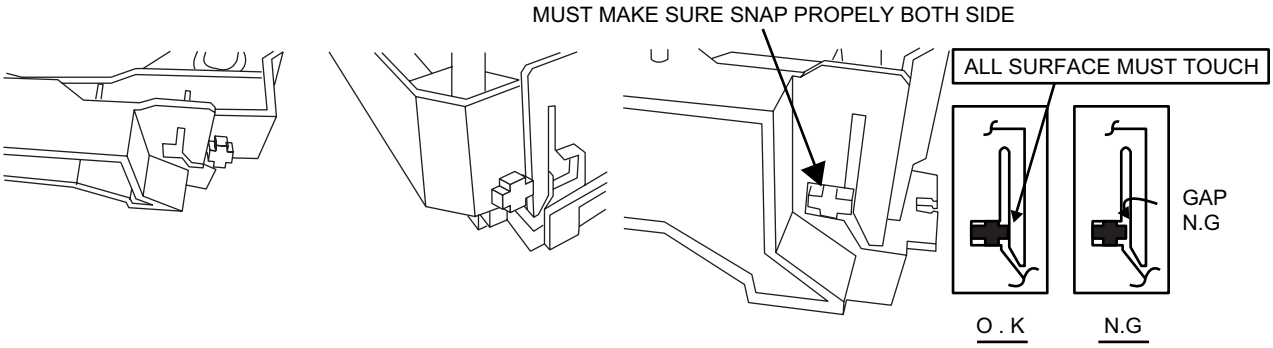

BEFORE MELT IT
AFTER MELT IT (MUST FLAT)


WHEN FITTING STABILIZER PLATE TO STABILIZER,
ROTATE STABILIZER ANTI CLOCKWISE BY JIG
(BY HAND CANNOT X)
AFTER ASSY TO HOLDER
STABILIZER NEED CLEAN
WITH ALCOHOL DISC
TOUCHING SURFACE
CHANGE COLOR
TO NATURE
BELOW

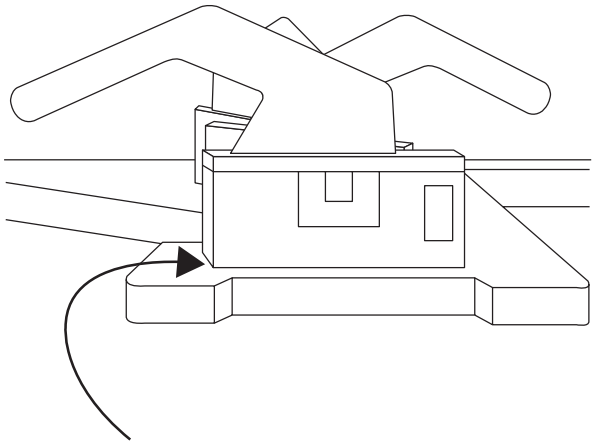
31


104


APPLY GREASE

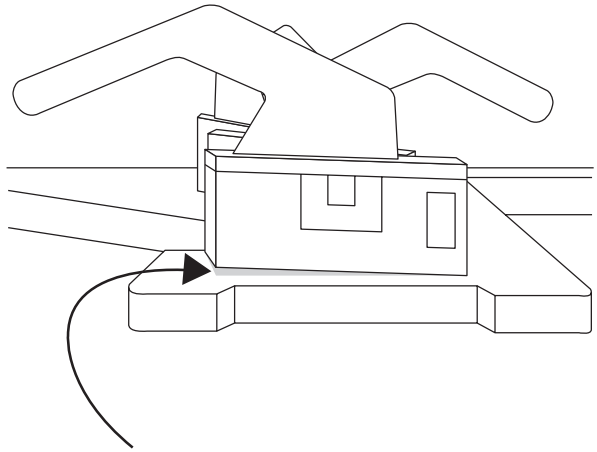

MUST MAKE SURE SNAP PROPELY BOTH SIDE
ALL SURFACE MUST TOUCH
GAP
N.G
O . K
N.G

32



NO GAP

O.K



HAVE GAP

N.G

CHAPTER 3. MECHANISM BLOCKS

[1] Caution on diassembly

Caution on Disassembly

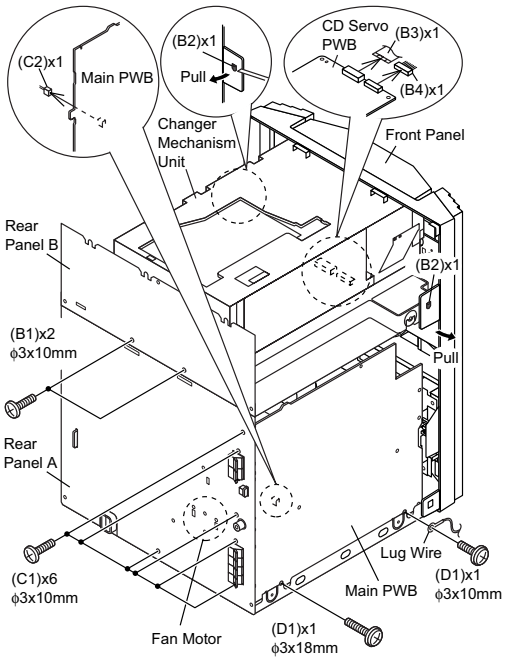
Follow the below-mentioned notes when disassembling the unit and reassembling it, to keep it safe and ensure excellent performance:

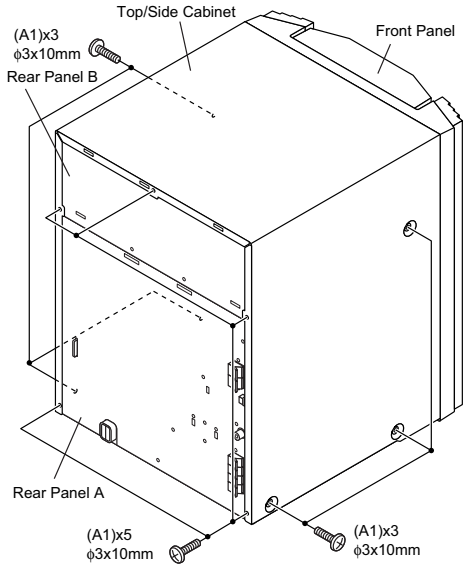
1. Take cassette tape and compact disc out of the unit.
2. Be sure to remove the power supply plug from the wall outlet before starting to disassemble the unit.
3. Take off nylon bands or wire holders where they need to be removed when disassembling the unit. After servicing the unit, be sure to rearrange the leads where they were before disassembling.

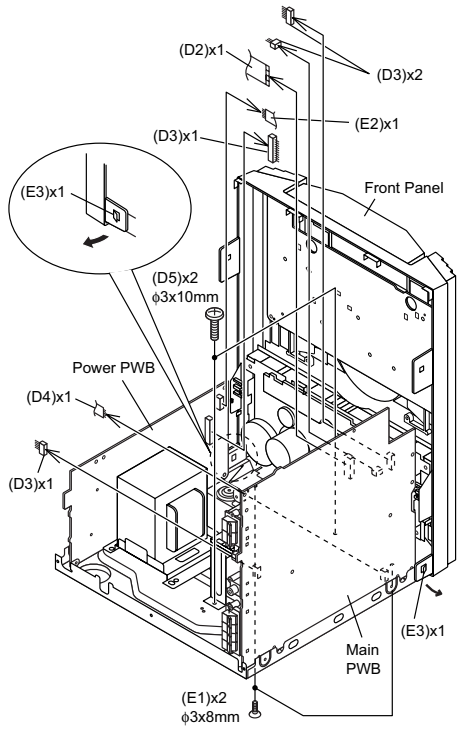
CD-MPS700

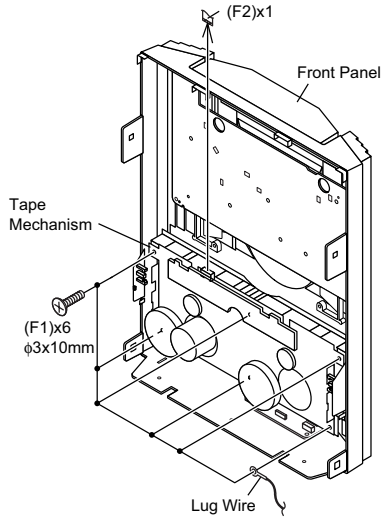
STEP	REMOVAL	PROCEDURE
1	Top/Side Cabinet	1. Screw ..... (A1) x11
2	Changer Unit/ Rear Panel B	1. Screw ..... (B1) x2 2. Hook ..... (B2) x2 3. Flat Cable..... (B3) x1 4. Socket ..... (B4) x1
3	Rear Panel A with Fan motor	1. Screw ..... (C1) x6 2. Socket ..... (C2) x1
4	Main PWB	1. Screw ..... (D1) x2 2. Flat Cable ..... (D2) x1 3. Socket ..... (D3) x4 4. Flat Wire ..... (D4) x1 5. Screw ..... (D5) x2
5	Front Panel	1. Screw ..... (E1) x2 2. Flat Wire ..... (E2) x1 3. Hook ..... (E3) x2
6	Tape Mechanism	1. Screw ..... (F1) x6 2. Flat Cable ..... (F2) x1
7	Display PWB	1. Knob ..... (G1) x1 2. Screw ..... (G2) x10 3. Hook ..... (G3) x5
8	Game Input PWB	1. Screw..... (H1) x2
9	CD Servo PWB	1. Screw ..... (J1) x2 2. Flat Cable ..... (J2) x2 3. Socket ..... (J3) x1 4. Hook ..... (J4) x1
10	Changer Mechanism Unit	1. Screw ..... (K1) x4 2. Changer Chassis .... (K2) x1
11	CD Mechanism	1. Screw ..... (L1) x4

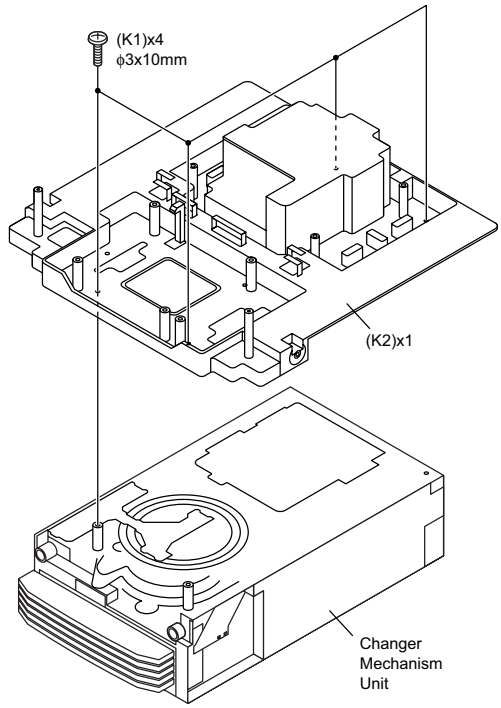
Note:
After removing the connector for the optical pickup from the connector, wrap the conductive aluminium foil around the front end of the connector so as to protect the optical pickup from electro-static damage.

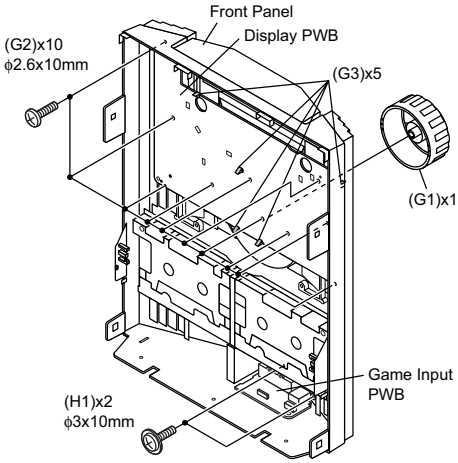


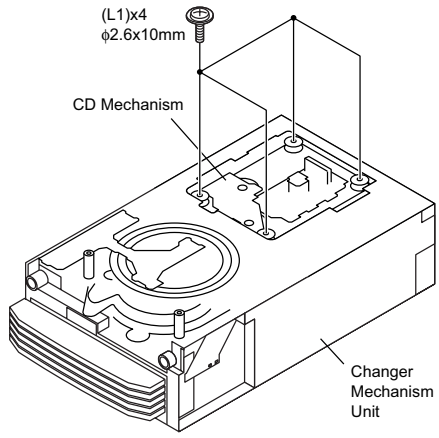


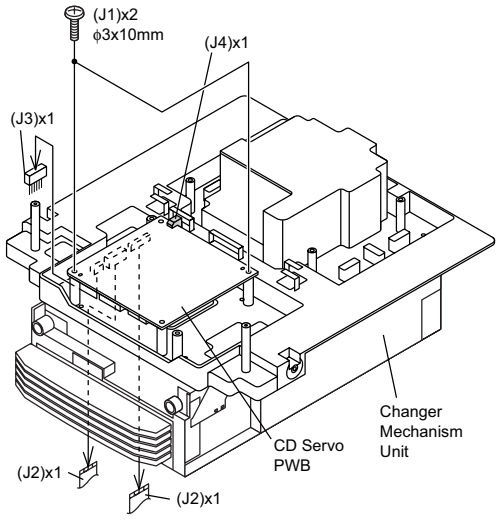



(F2)x1
Front Panel
Tape
Mechanism
(F1)x6
φ3x10mm
Lug Wire


(K1)x4
φ3x10mm
(K2)x1
Changer
Mechanism
Unit

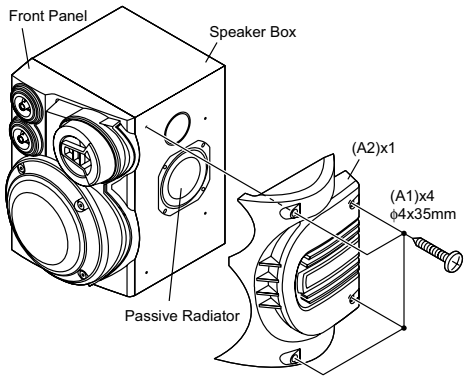

Front Panel
Display PWB
(G2)x10
φ2.6x10mm
(G3)x5
(G1)x1
Game Input
PWB
(H1)x2
φ3x10mm

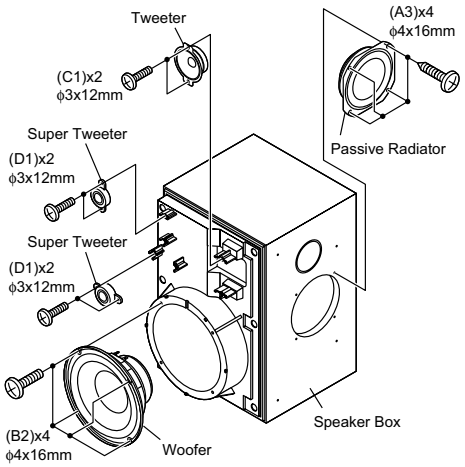

(L1)x4
φ2.6x10mm
CD Mechanism
Changer
Mechanism
Unit

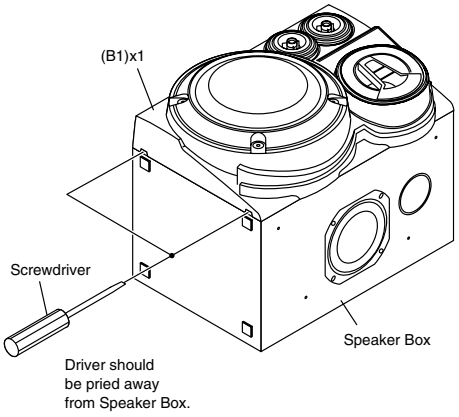

(J1)x2
φ3x10mm
(J4)x1
(J3)x1
Changer
Mechanism
Unit
CD Servo
PWB
(J2)x1
(J2)x1

CP-MPS700

STEP	REMOVAL	PROCEDURE
1	Passive Radiator	1. Screw ..... (A1) x4 2. Side Panel ..... (A2) x1 3. Screw ..... (A3) x4
2	Woofer	1. Front Panel ..... (B1) x1 2. Screw ..... (B2) x4
3	Tweeter	1. Screw ..... (C1) x2
4	Super Tweeter	1. Screw ..... (D1) x4







[2] Removing and reinstalling the main parts

1. TAPE MECHANISM SECTION

Perform steps 1 to 5 and 6 of the disassembly method to remove the tape mechanism.

1.1. How to remove the record/playback and erase heads (TAPE 2) (See Fig. 1)

1. When you remove the screws (A1) x 2 pcs., the recording/playback head and three-dimensional head of the erasing head can be removed.

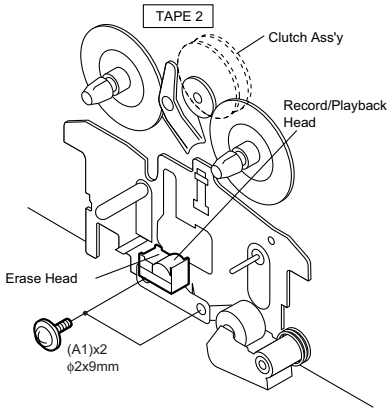


Figure 1

1.2. How to remove the playback head (TAPE 1)(See Fig. 2)

1. When you remove the screws (B1) x 2 pcs., the playback head can be removed.

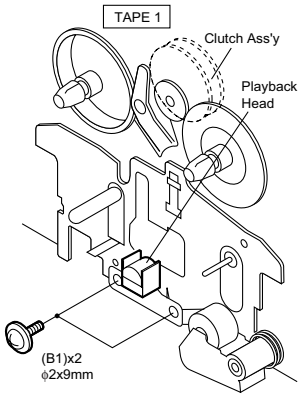


Figure 2

1.3. How to remove the pinch roller (TAPE 1/2) (See Fig. 3)

1. Carefully bend the pinch roller pawl in the direction of the arrow <A>, and remove the pinch roller (C1) x 1 pc., in the direction of the arrow <B>.

Note:
When installing the pinch roller, pay attention to the spring mounting position.

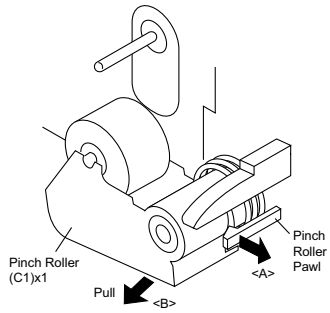


Figure 3

1.4. How to remove the belt (TAPE 2) (See Fig. 4)

1. Remove the main belt (D1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (D2) x 1 pc.

1.5. How to remove the belt (TAPE 1) (See Fig. 4)

1. Remove the main belt (E1) x 1 pc., from the motor side.
2. Remove the FF/REW belt (E2) x 1 pc.

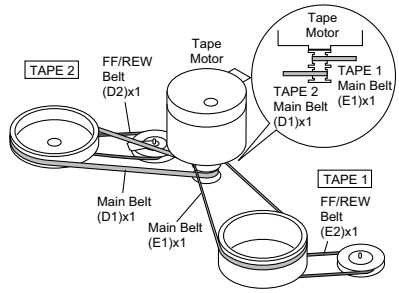


Figure 4

1.6. How to remove the motor (See Fig. 5)

1. Remove the screws (F1) x 2 pcs., to remove the motor.

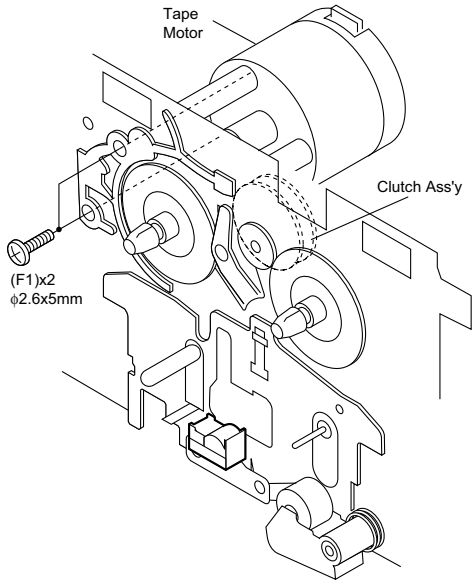


Figure 5

2. CD MECHANISM SECTION

Perform steps 1, 2, 9, 10 and 11 of the disassembly method to remove the CD mechanism.

2.1. Remove the pickup. (See Fig. 1)

1. Remove the stop washer (A1) x 1 pc., to remove the gear (A2) x 1 pc.
2. Remove the screws (A3) x 2 pcs., to remove the shaft (A4) x 1 pc.
3. Remove the pickup.

Note
After removing the connector for the optical pickup from the connector wrap the conductive aluminium foil around the front end of connector so as to protect the optical pickup from electrostatic damage.

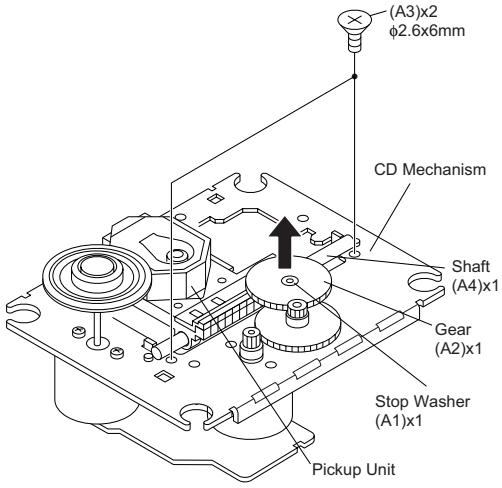


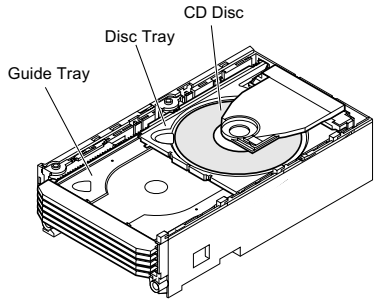
Figure 1

3. CHANGER MECHANISM SECTION

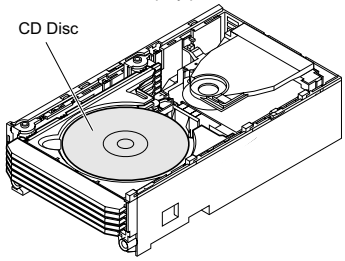
Perform steps 1, 2, 9 and 10 of the disassembly method to remove the CD changer mechanism.

3.1. How to remove CD Disc (See Fig. 2~5)

1. When CD is at play position (Figure 2), rotate reduction gear C clock-wise as shown in Figure 3 Until disc tray is at stock position, then rotate further to eject the disc tray so that CD can be removed from the tray.



CD At play position.



CD At stock position.

Figure 2

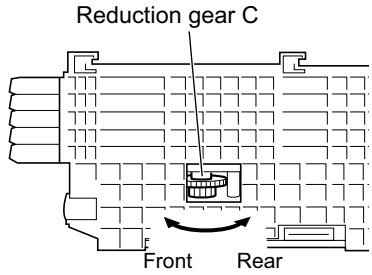


Figure 3

2. In another case, if CD mechanism is at tray No.1 play position and to remove CD located in tray No.3, the procedure is as follows:

   If the gear up down board is located at tray No.1 position, then rotate gear clock-wise until it at stock position. Rotate reduction gear D clockwise (Figure 4) to move the CD mechanism to tray No.3 position.This is confirmed by checking the gear up down board position by the marking as indicated on the main chassis as shown in Figure 5.

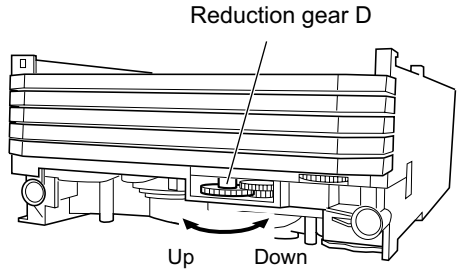


Figure 4

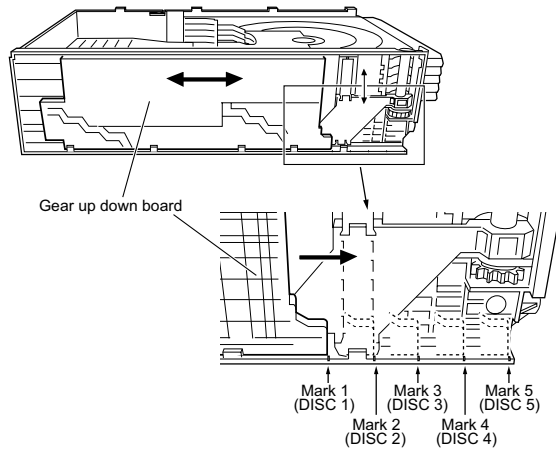


Figure 5

3.2. How to Remove the tray motor/main cam motor/5-Changer Motor PWB (See Fig. 6)

1. Remove the screws (A1)x 2 pcs., to remove tray motor/main cam motor/5-Changer Motor PWB.

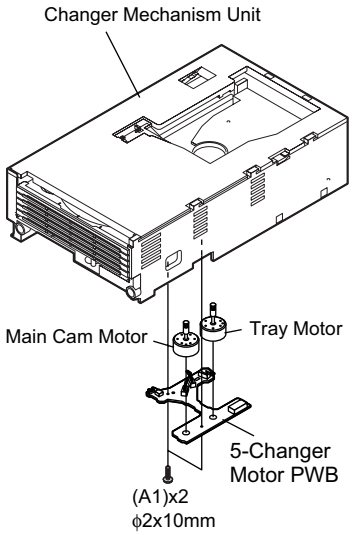


Figure 6

NOTE: There are 2 more screws tighten the motors at the bottom of main chassis. Before performing procedure 1 above, disc stop spring, top plate sear up down board and trays must be removed, then only the 2 screws can be untighten.

—— MEMO ——

CHAPTER 4. DIAGRAMS

[1] Block diagrams

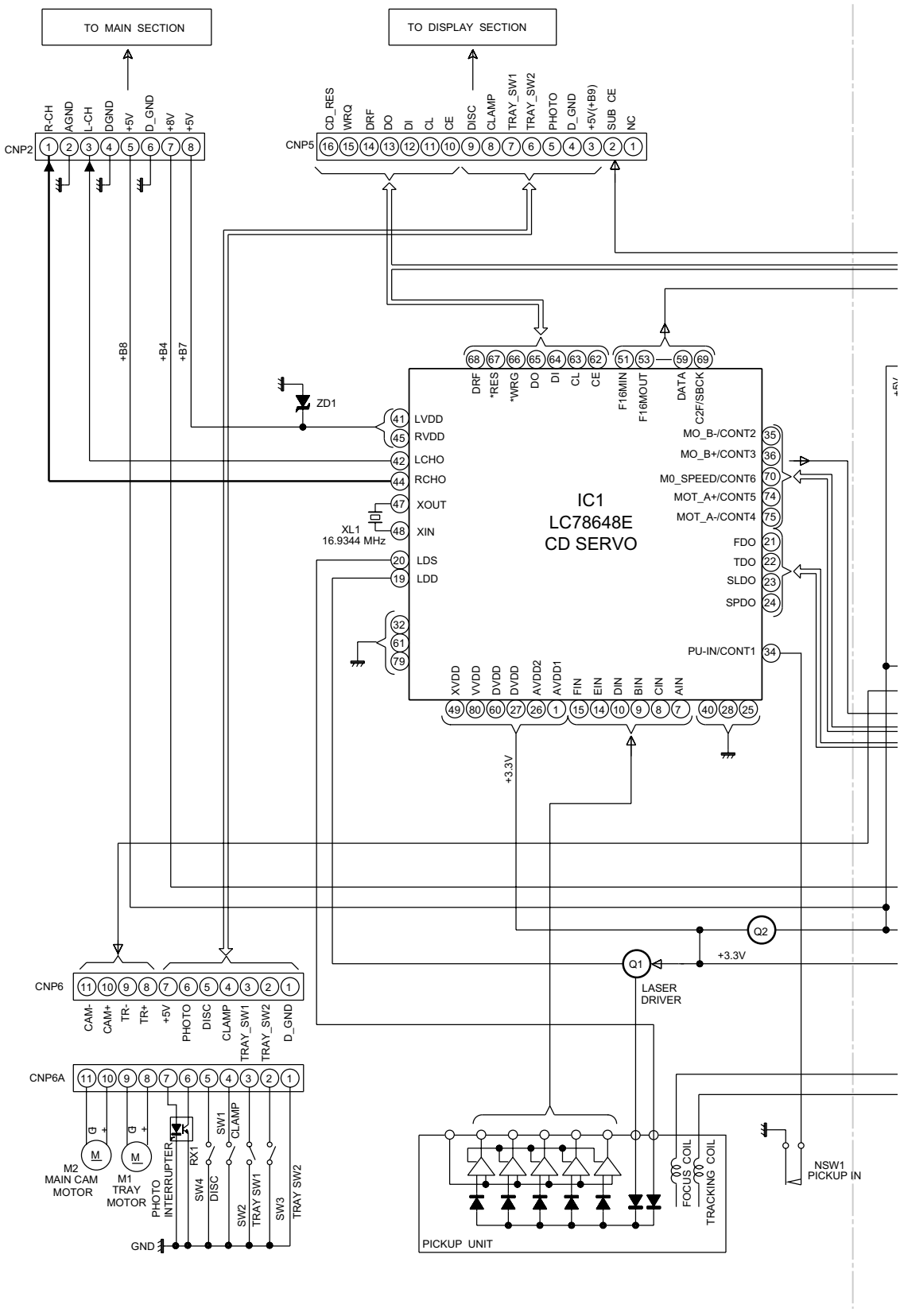


Figure 4-1 BLOCK DIAGRAM (1/4)

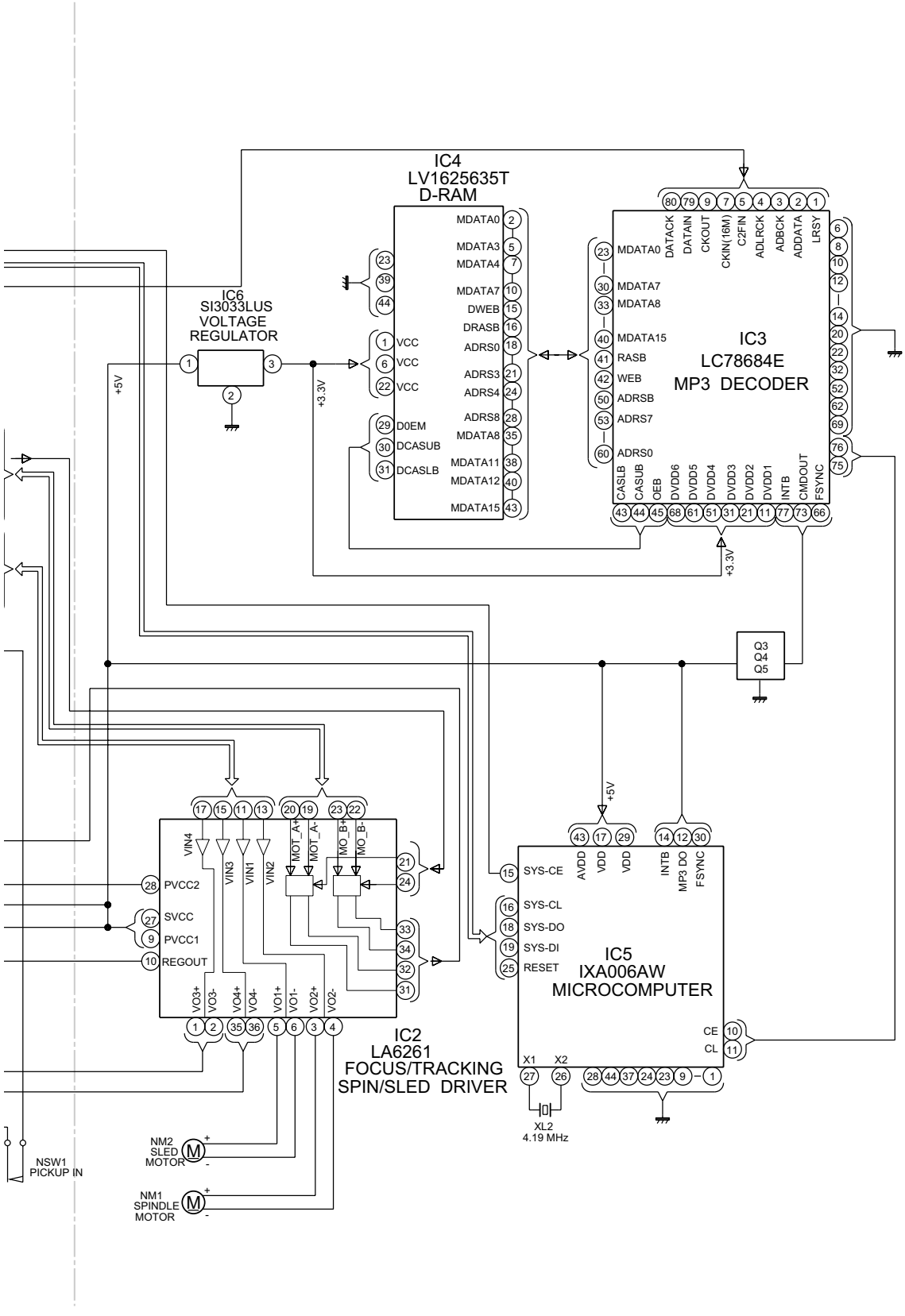


Figure 4-2 BLOCK DIAGRAM (2/4)

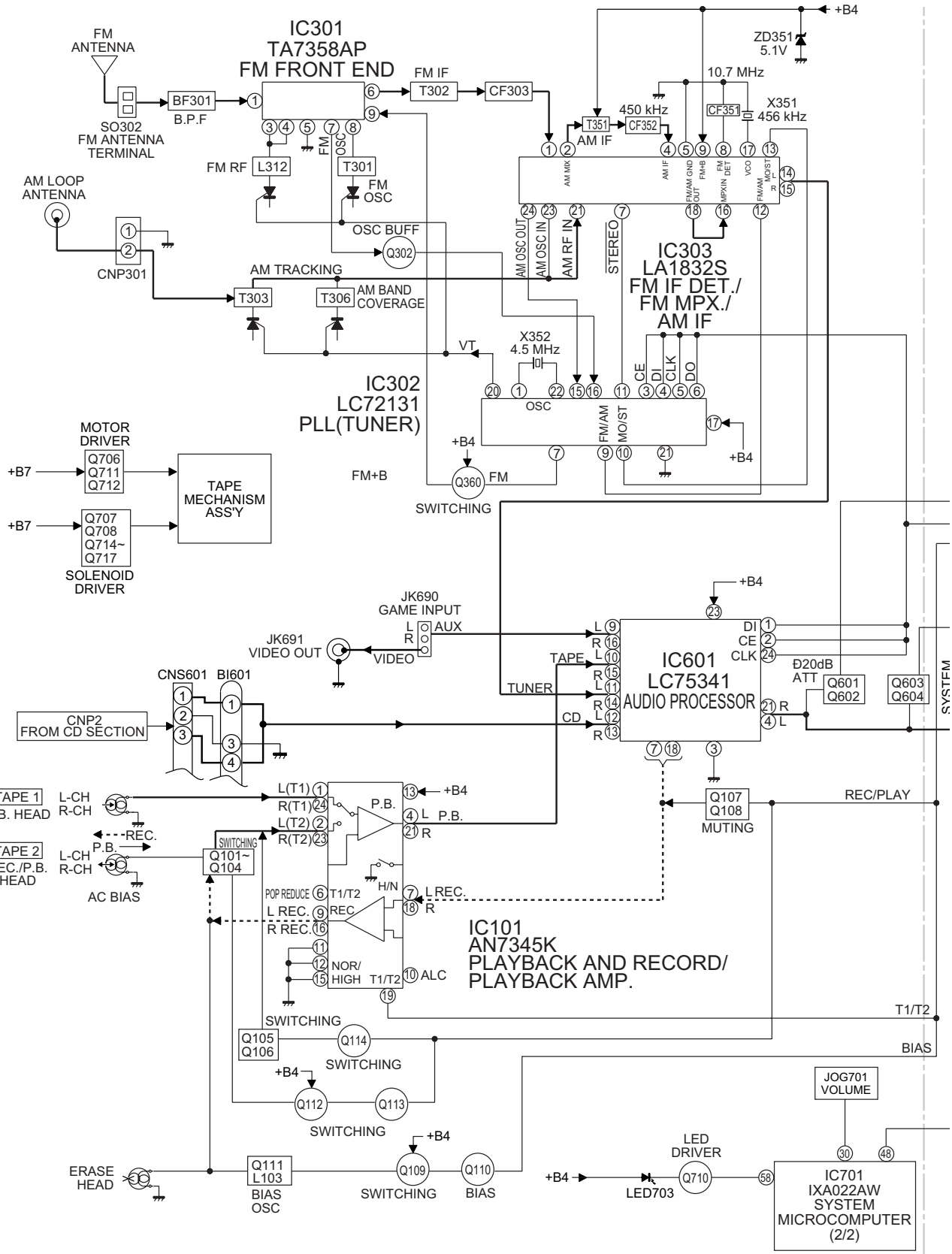


Figure 4-3 BLOCK DIAGRAM (3/4)

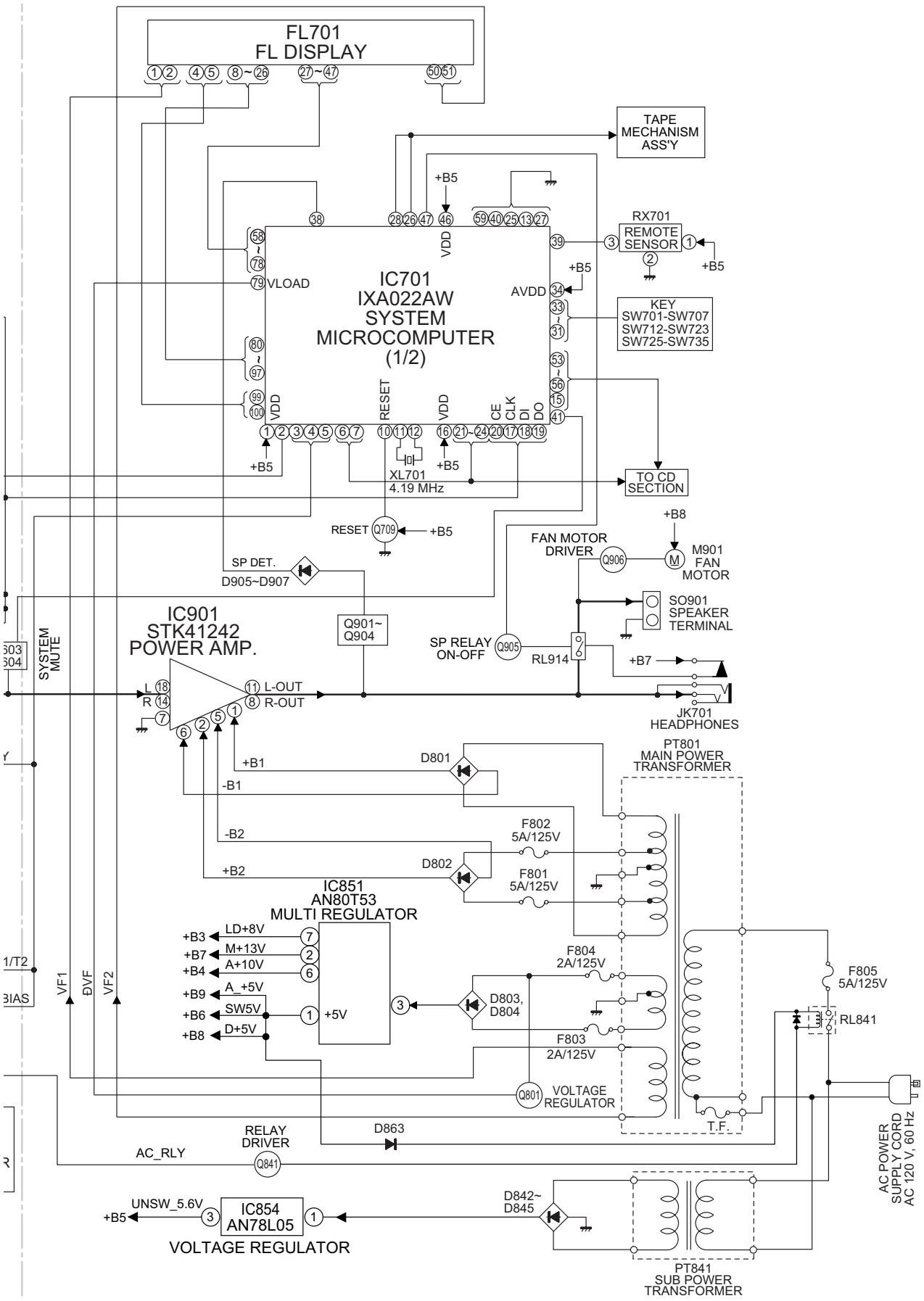


Figure 4-4 BLOCK DIAGRAM (4/4)

CHAPTER 5. CIRCUIT DESCRIPTION

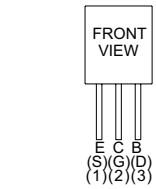
[1] Notes on schematic diagram

- Resistor:
  To differentiate the units of resistors, such symbol as K and M are used: the symbol K means 1000 ohm and the symbol M means 1000 kohm and the resistor without any symbol is ohm-type resistor. Besides, the one with “Fusible” is a fuse type.
- Capacitor:
  To indicate the unit of capacitor, a symbol P is used: this symbol P means pico-farad and the unit of the capacitor without such a symbol is microfarad. As to electrolytic capacitor, the expression “capacitance/withstand voltage” is used.
  (CH), (TH), (RH), (UJ): Temperature compensation
  (ML): Mylar type
  (P.P.): Polypropylene type
- Schematic diagram and Wiring Side of P.W.Board for this model are subject to change for improvement without prior notice.
- The indicated voltage in each section is the one measured by Digital Multimeter between such a section and the chassis with no signal given.
  1. In the tuner section,
     indicates AM
     indicates FM stereo
  2. In the main section, a tape is being played back.
  3. In the deck section, a tape is being played back.
     ( ) indicates the record state.
  4. In the power section, a tape is being played back.
  5. In the CD section, the CD is stopped.
- Parts marked with “ ⚠ “ (⊏ ═ ═ ═ ⊐) are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

REF. NO	DESCRIPTION	POSITION
JOG701	VOLUME	ON—OFF
NSW1	PICKUP IN	ON—OFF
SW1	CLAMP	ON—OFF
SW2	TRAY SW1	ON—OFF
SW3	TRAY SW2	ON—OFF
SW4	DISC	ON—OFF
SW701	POWER ON/STAND-BY	ON—OFF
SW702	CLOCK/TIMER	ON—OFF
SW703	TUNING UP	ON—OFF
SW704	TUNING DOWN	ON—OFF
SW705	FAST REWIND/PRESET DOWN	ON—OFF
SW706	EQUALIZER	ON—OFF
SW707	FAST FORWARD/PRESET UP	ON—OFF
SW712	TUNER (BAND)	ON—OFF
SW713	CD	ON—OFF
SW714	TAPE	ON—OFF
SW715	GAME/VIDEO	ON—OFF
SW716	X-BASS/DEMO	ON—OFF

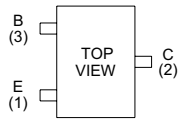
REF. NO	DESCRIPTION	POSITION
SW717	LEFT	ON—OFF
SW718	UP	ON—OFF
SW719	CHARACTER	ON—OFF
SW720	RIGHT	ON—OFF
SW721	ENTER	ON—OFF
SW722	DOWN	ON—OFF
SW723	MP3 NAVIGATION	ON—OFF
SW725	PLAY/REPEAT	ON—OFF
SW726	STOP	ON—OFF
SW727	REC/PAUSE	ON—OFF
SW728	MEMORY/SET	ON—OFF
SW729	OPEN/CLOSE	ON—OFF
SW730	DIRECT PLAY	ON—OFF
SW731	DISC2	ON—OFF
SW732	DISC4	ON—OFF
SW733	DISC5	ON—OFF
SW734	DISC3	ON—OFF
SW735	DISC1	ON—OFF

[2] Types of transistor and LED

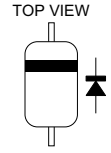


KTA1266 GR
KTA1271 Y
KTA1273 Y
KTA1274 Y

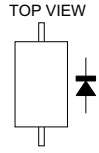
KTC3194 Y
KTC3199 GR
KTC3200 GR
KTC3203 Y



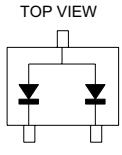
KRA107 S
KRC102 S
KRC104 S
KTA1504 Y
KTC3875 GR
2SD601 AR



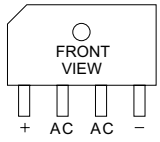
1N4148H



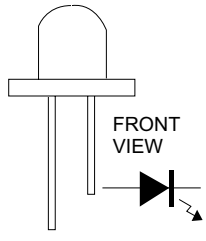
1N4004S



KDS184



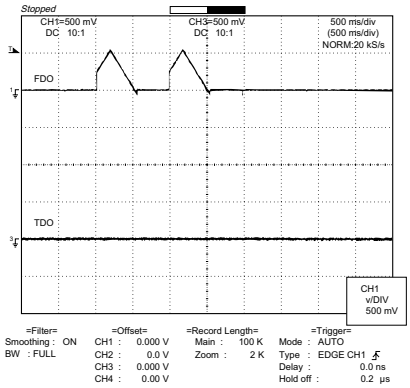
D10XB60F



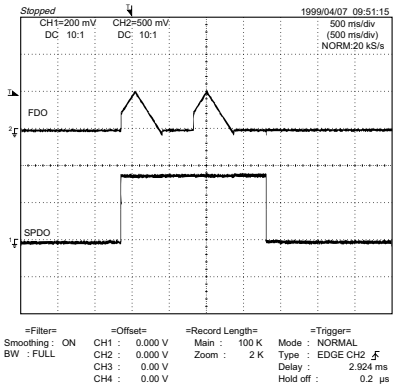
304VT2H3
SDPB50CD

[3] Waveforms of CD circuit

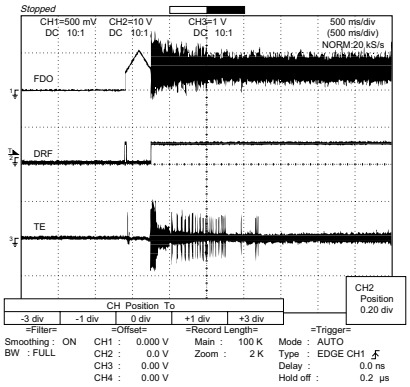
1 IC1 (21)
2 IC1 (22)



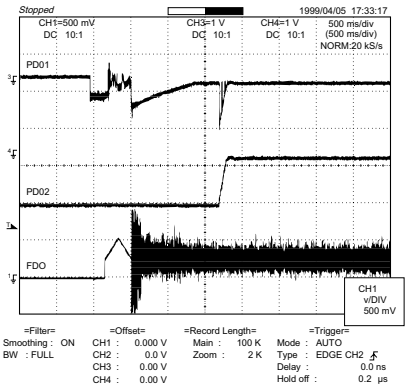
1 IC1 (21)
6 IC1 (24)



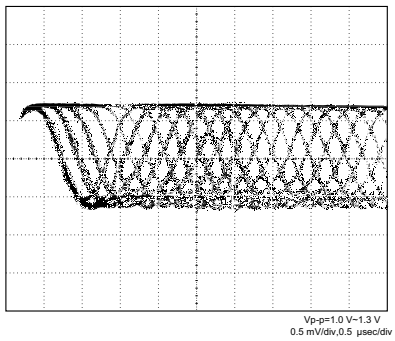
1 IC1 (21)
3 IC1 (68)
4 IC1 (17)



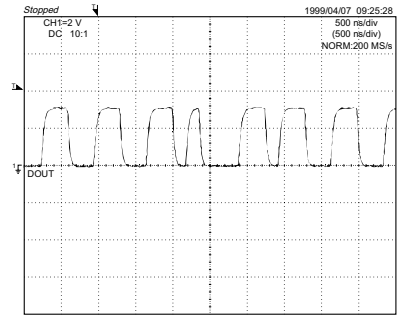
7 IC1 (76)
8 IC1 (77)
1 IC1 (21)



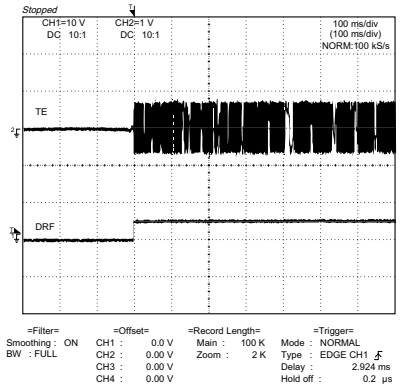
5 IC1 (4)



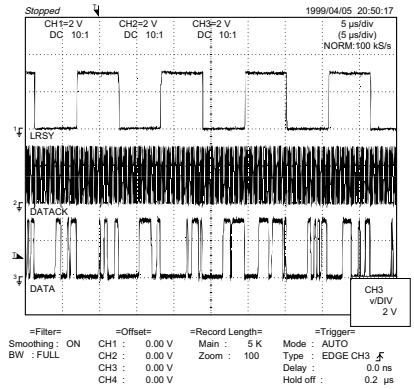
9 IC1 (39)



4 IC1 (17)
3 IC1 (68)



10 IC1 (57)
11 IC1 (58)
12 IC1 (59)



[4] Voltage

IC1	
PIN NO.	VOLTAGE
1	3.20 V
2	1.61 V
3	1.61 V
4	1.60 V
5	1.61 V
6	3.08 V
7	1.65 V
8	1.65 V
9	1.65 V
10	1.65 V
11	1.48 V
12	0 V
13	1.65 V
14	0 V
15	1.65 V
16	1.47 V
17	1.48 V
18	0 V
19	0 V
20	0 V
21	1.60 V
22	0 V
23	1.61 V
24	1.61 V
25	0 V
26	0 V
27	3.20 V
28	0 V
29	3.20 V
30	0 V
31	0 V
32	1.59 V
33	1.60 V
34	3.20 V
35	0 V
36	0 V
37	0 V
38	0 V
39	0 V
40	0 V
41	3.61 V
42	0 V
43	0 V
44	1.80 V
45	3.60 V
46	0 V
47	1.45 V
48	1.49 V
49	3.19 V
50	3.79 V
51	0 V
52	0 V
53	0 V
54	0 V
55	0 V
56	0 V
57	0 V
58	0 V
59	0 V
60	3.20 V
61	0 V
62	0 V
63	0.63 V
64	0 V
65	5.16 V
66	5.18 V
67	4.68 V
68	0 V
69	0 V
70	0 V
71	0 V
72	0 V
73	0 V
74	4.86 V
75	4.86 V
76	3.01 V
77	0 V
78	1.12 V
79	0 V
80	3.20 V

IC2	
PIN NO.	VOLTAGE
1	2.10 V
2	2.20 V
3	2.10 V
4	2.20 V
5	2.10 V
6	2.20 V
7	0 V
8	4.37 V
9	5.02 V
10	3.20 V
11	1.62 V
12	1.65 V
13	1.62 V
14	1.65 V
15	1.62 V
16	0 V
17	1.62 V
18	1.64 V
19	4.71 V
20	4.71 V
21	3.92 V
22	3.11 V
23	3.10 V
24	2.50 V
25	1.65 V
26	0 V
27	5.02 V
28	8.68 V
29	5.02 V
30	0.59 V
31	0.71 V
32	0 V
33	0 V
34	0 V
35	2.11 V
36	2.20 V

IC101	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.57 V
4	2.03 V
5	0.44 V
6	0 V
7	0 V
8	0.58 V
9	3.45 V
10	3.35 V
11	0 V
12	0 V
13	6.97 V
14	4.16 V
15	0 V
16	3.42 V
17	0.57 V
18	0 V
19	0 V
20	0.41 V
21	2.03 V
22	0.57 V
23	0 V
24	0 V

IC301	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0.29 V
4	0.20 V
5	0 V
6	0.29 V
7	0.26 V
8	0.29 V
9	0.29 V

IC302	
PIN NO.	VOLTAGE
1	2.57 V
2	0 V
3	0 V
4	0 V
5	0 V
6	5.22 V
7	10.18 V
8	4.76 V
9	0 V
10	0 V
11	5.23 V
12	0 V
13	5.23 V
14	0 V
15	0 V
16	2.59 V
17	5.24 V
18	0 V
19	0 V
20	10.18 V
21	0 V
22	2.57 V

IC303	
PIN NO.	VOLTAGE
1	1.97 V
2	5.15 V
3	1.97 V
4	1.96 V
5	0 V
6	0 V
7	5.21 V
8	3.59 V
9	5.15 V
10	0 V
11	2.01 V
12	1.25 V
13	2.27 V
14	1.13 V
15	1.10 V
16	1.96 V
17	0 V
18	1.29 V
19	2.08 V
20	1.29 V
21	1.95 V
22	1.95 V
23	5.15 V
24	3.65 V

IC601	
PIN NO.	VOLTAGE
1	0 V
2	0 V
3	0 V
4	5.10 V
5	5.10 V
6	5.10 V
7	5.10 V
8	5.11 V
9	5.10 V
10	5.10 V
11	5.10 V
12	5.10 V
13	5.10 V
14	5.10 V
15	5.10 V
16	5.10 V
17	5.10V
18	5.10 V
19	5.10 V
20	5.10 V
21	5.10 V
22	5.10 V
23	10.20 V
24	0 V

IC901	
PIN NO.	VOLTAGE
1	52.80 V
2	21.60 V
3	9.60 V
4	-9.70 V
5	-21.60 V
6	-48.80 V
7	0 V
8	-19.70 V
9	-22.90 V
10	-22.10 V
11	-18.60 V
12	-51.30 V
13	51.40V
14	-0.14 V
15	-0.13 V
16	-50.04 V
17	-0.14 V
18	-0.14 V

IC851	
PIN NO.	VOLTAGE
1	5.22 V
2	13.11 V
3	20.66 V
4	0 V
5	19.72 V
6	10.22 V
7	8.67 V

IC701			
PIN NO.	VOLTAGE	PIN NO.	VOLTAGE
1	4.74 V	51	0 V
2	4.65 V	52	0 V
3	0 V	53	0 V
4	4.70 V	54	0 V
5	4.72 V	55	5.17 V
6	4.72 V	56	5.17 V
7	0 V	57	-29.70 V
8	0 V	58	0 V
9	0 V	59	-0.26 V
10	4.83 V	60	-0.24 V
11	2.27 V	61	-0.22 V
12	1.99 V	62	-0.20 V
13	0 V	63	-0.19 V
14	4.73 V	64	-0.19 V
15	0 V	65	-0.18 V
16	4.74 V	66	-0.17 V
17	0 V	67	-0.16 V
18	0 V	68	0 V
19	5.22 V	69	-29.90 V
20	0 V	70	-29.90 V
21	0 V	71	-29.90 V
22	4.68 V	72	-29.90 V
23	0 V	73	-29.90 V
24	0 V	74	-19.76 V
25	0 V	75	-27.40 V
26	5.20 V	76	-24.87 V
27	0 V	77	-22.29 V
28	5.01 V	78	-22.30 V
29	5.01 V	79	-30.13 V
30	2.64 V	80	-27.43 V
31	5.01 V	81	-14.50 V
32	5.01 V	82	-27.20 V
33	0 V	83	-19.30 V
34	0 V	84	-6.08 V
35	5.01 V	85	-21.85 V
36	1.67 V	86	-27.22 V
37	5.20 V	87	-21.89 V
38	5.01 V	88	-17.00 V
39	4.87 V	89	-27.38 V
40	0 V	90	-27.10 V
41	2.02 V	91	-27.07 V
42	0 V	92	-27.00 V
43	13.10 V	93	-27.00 V
44	0 V	94	-27.35 V
45	0 V	95	-26.27 V
46	4.74 V	96	-27.11 V
47	0 V	97	-27.00 V
48	4.61 V	98	-27.07 V
49	0 V	99	-27.07 V
50	0 V	100	-26.83 V

— **MEMO** —

CHAPTER 6. CIRCUIT SCHEMATICS AND PARTS LAYOUT

[1] Schematic diagram

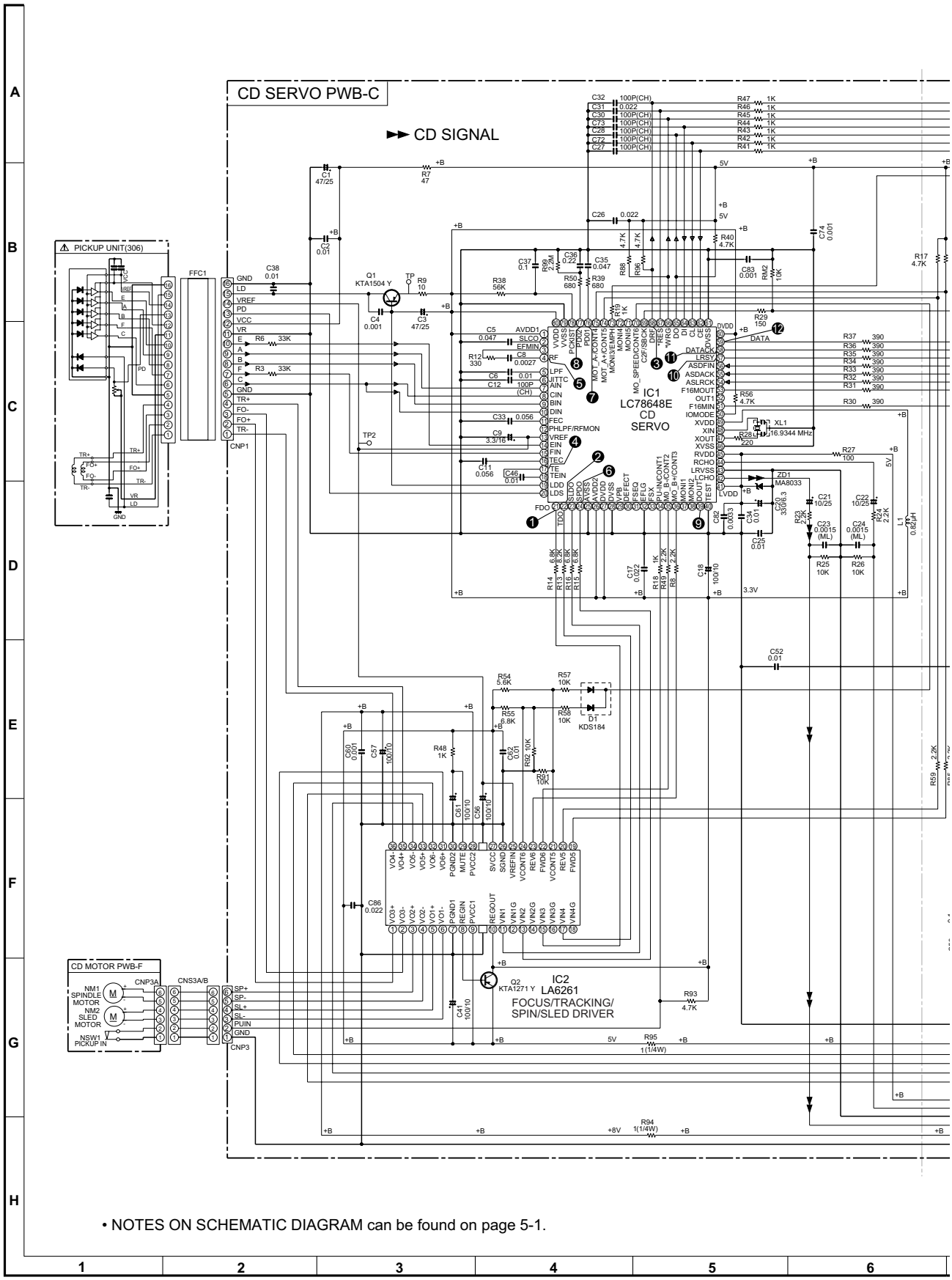
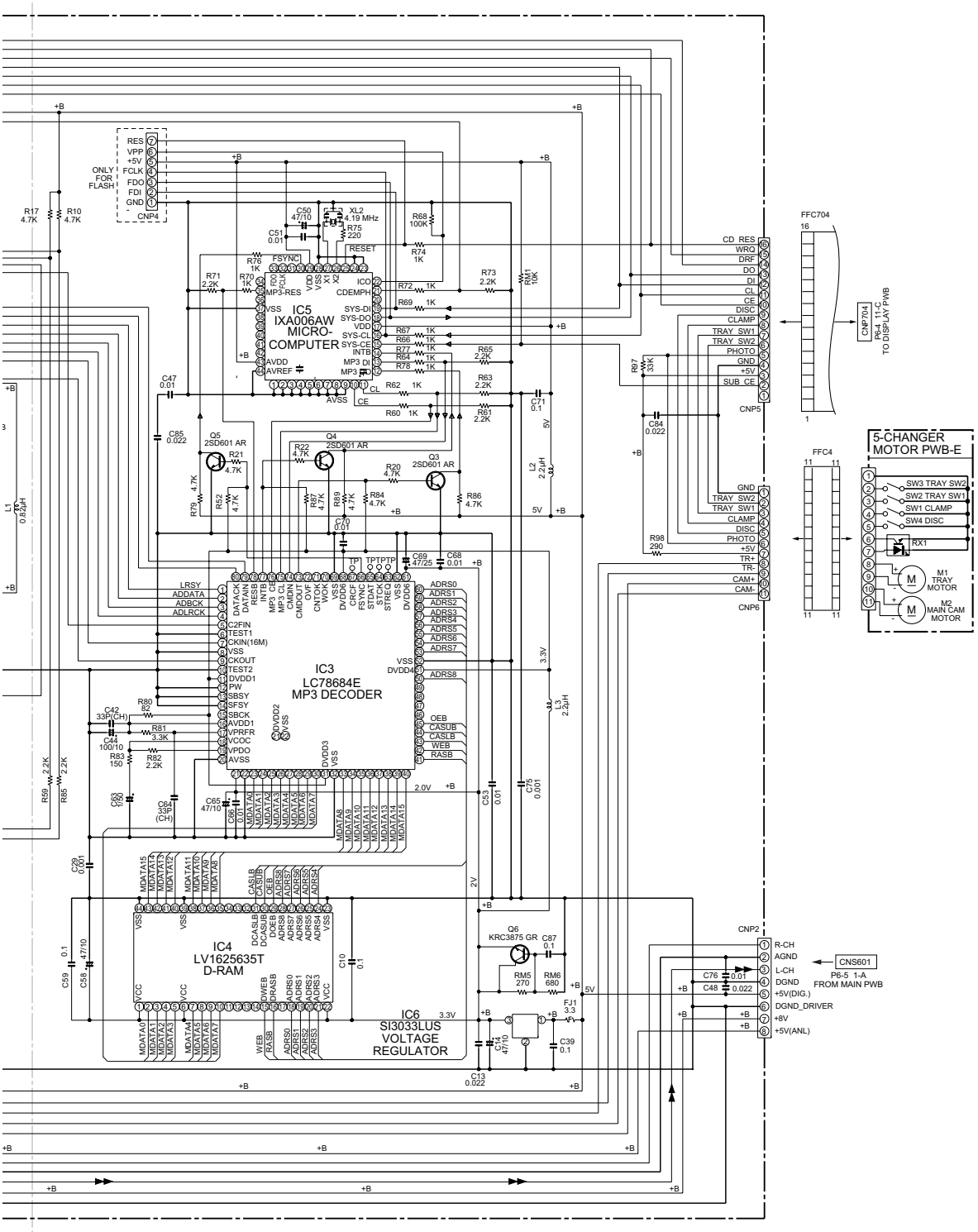


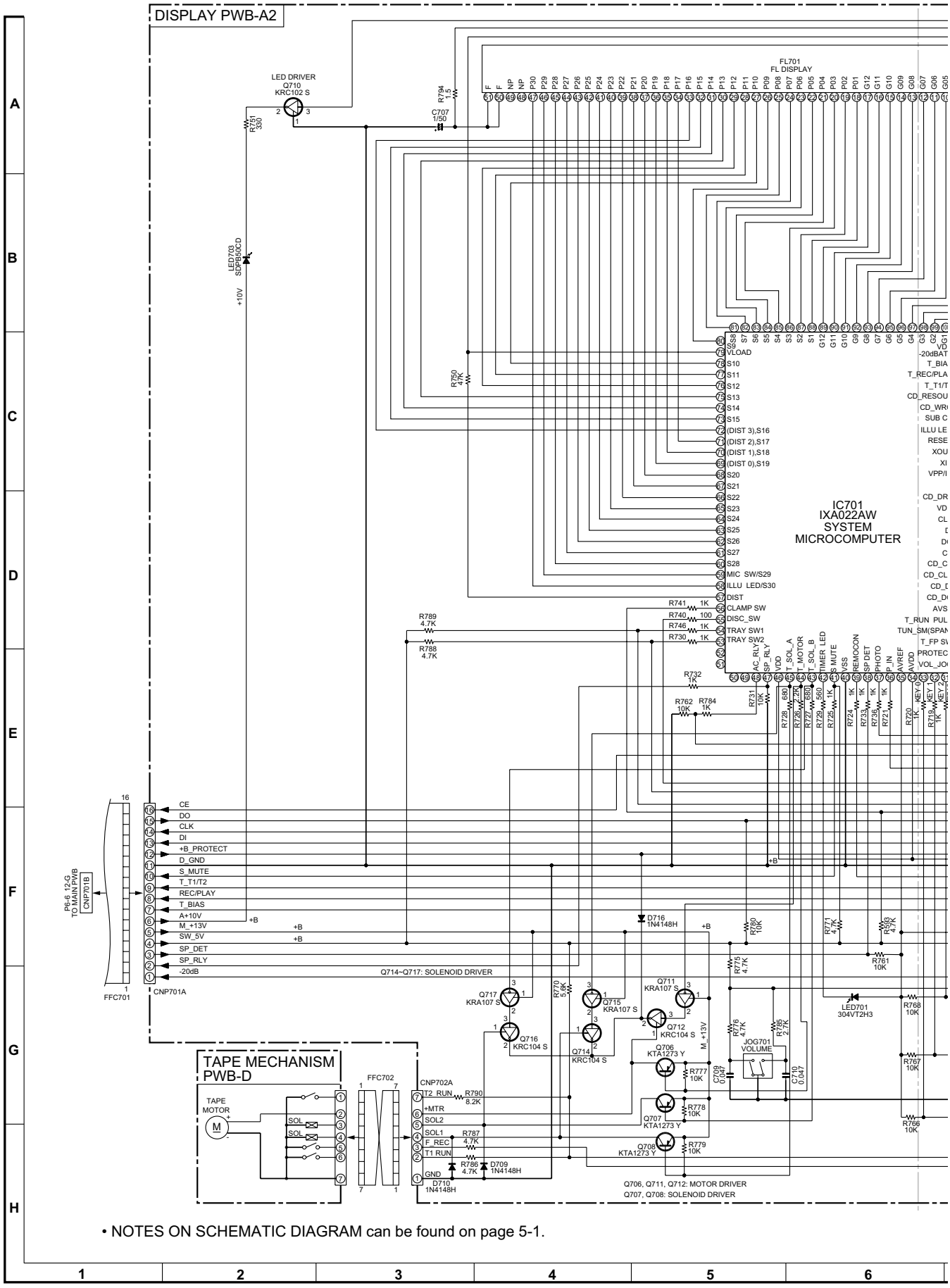
Figure 6-1 SCHEMATIC DIAGRAM (1/10)



• The number ❶ to ⓬ are waveform number shown in page 5-2.

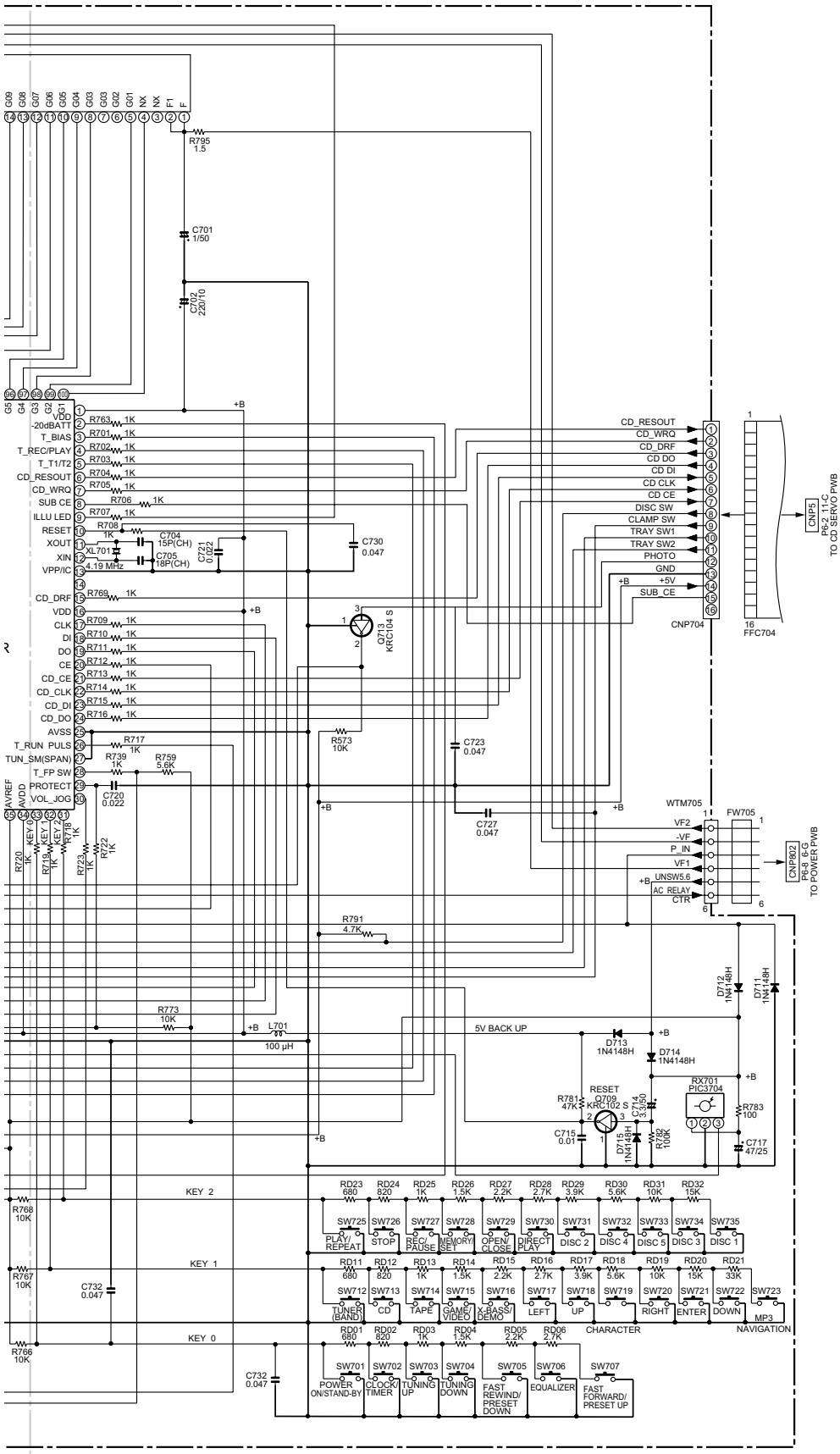
	7	8	9	10	11	12

Figure 6-2 SCHEMATIC DIAGRAM (2/10)



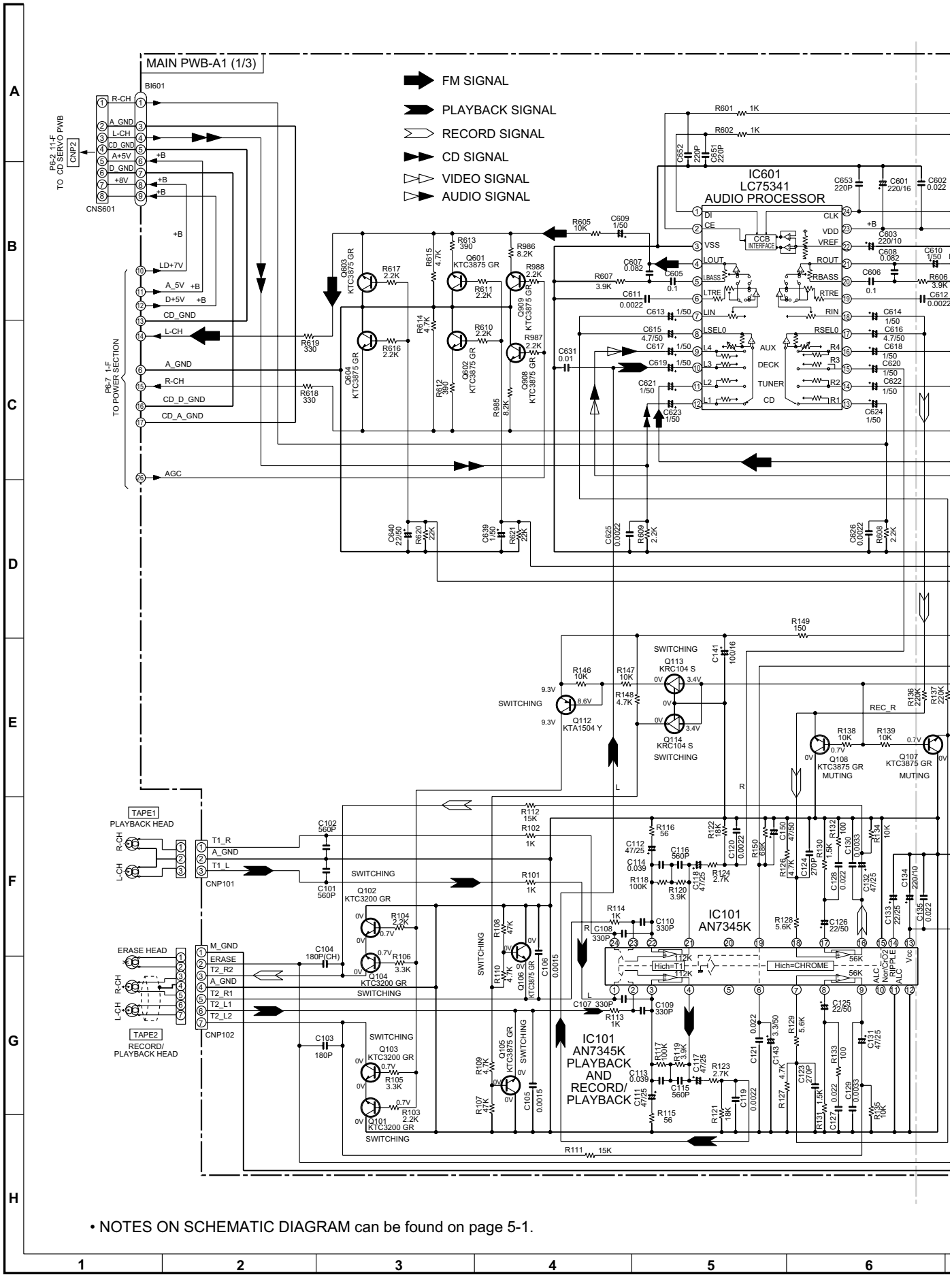
• NOTES ON SCHEMATIC DIAGRAM can be found on page 5-1.

Figure 6-3 SCHEMATIC DIAGRAM (3/10)



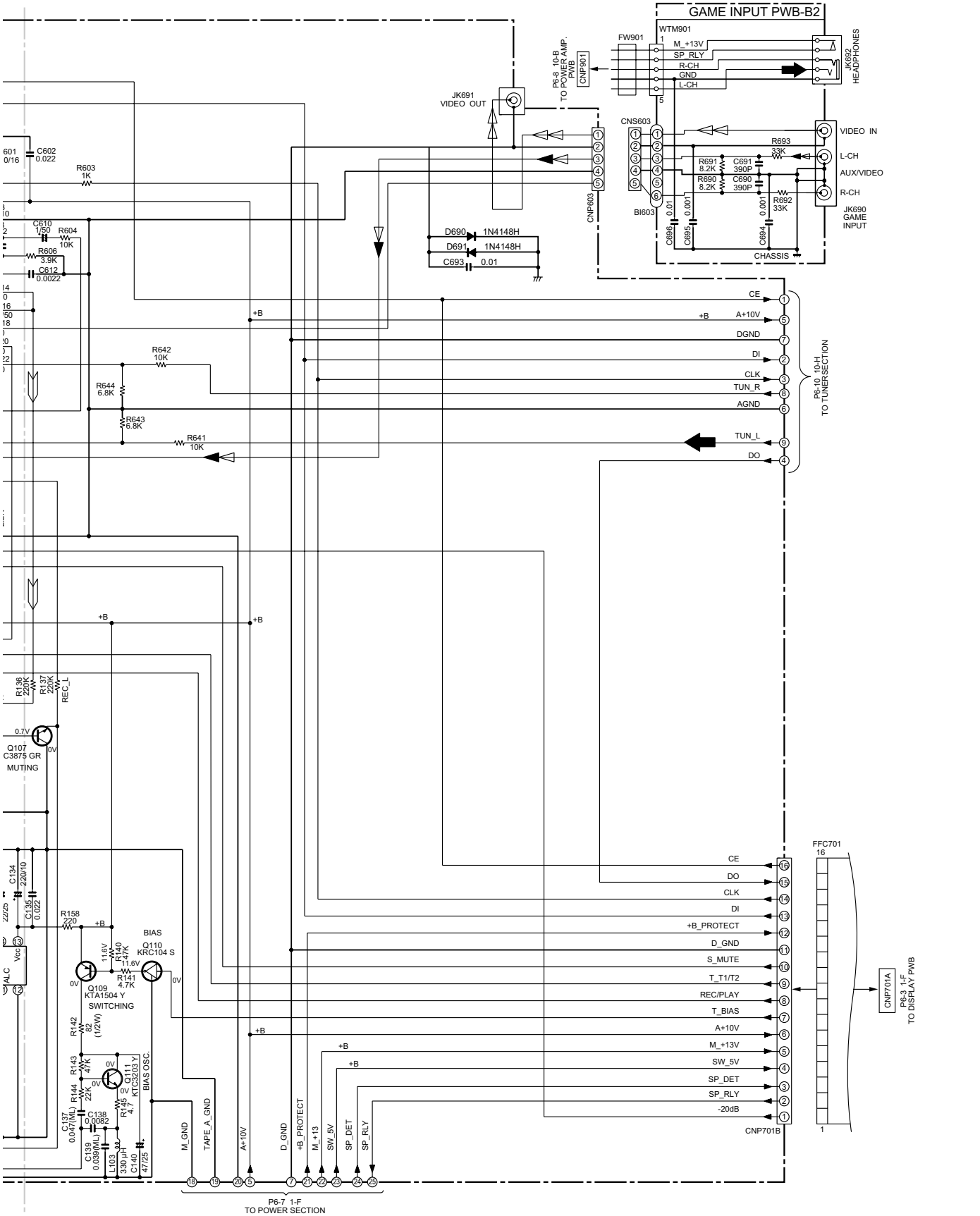
	7	8	9	10	11	12

Figure 6-4 SCHEMATIC DIAGRAM (4/10)



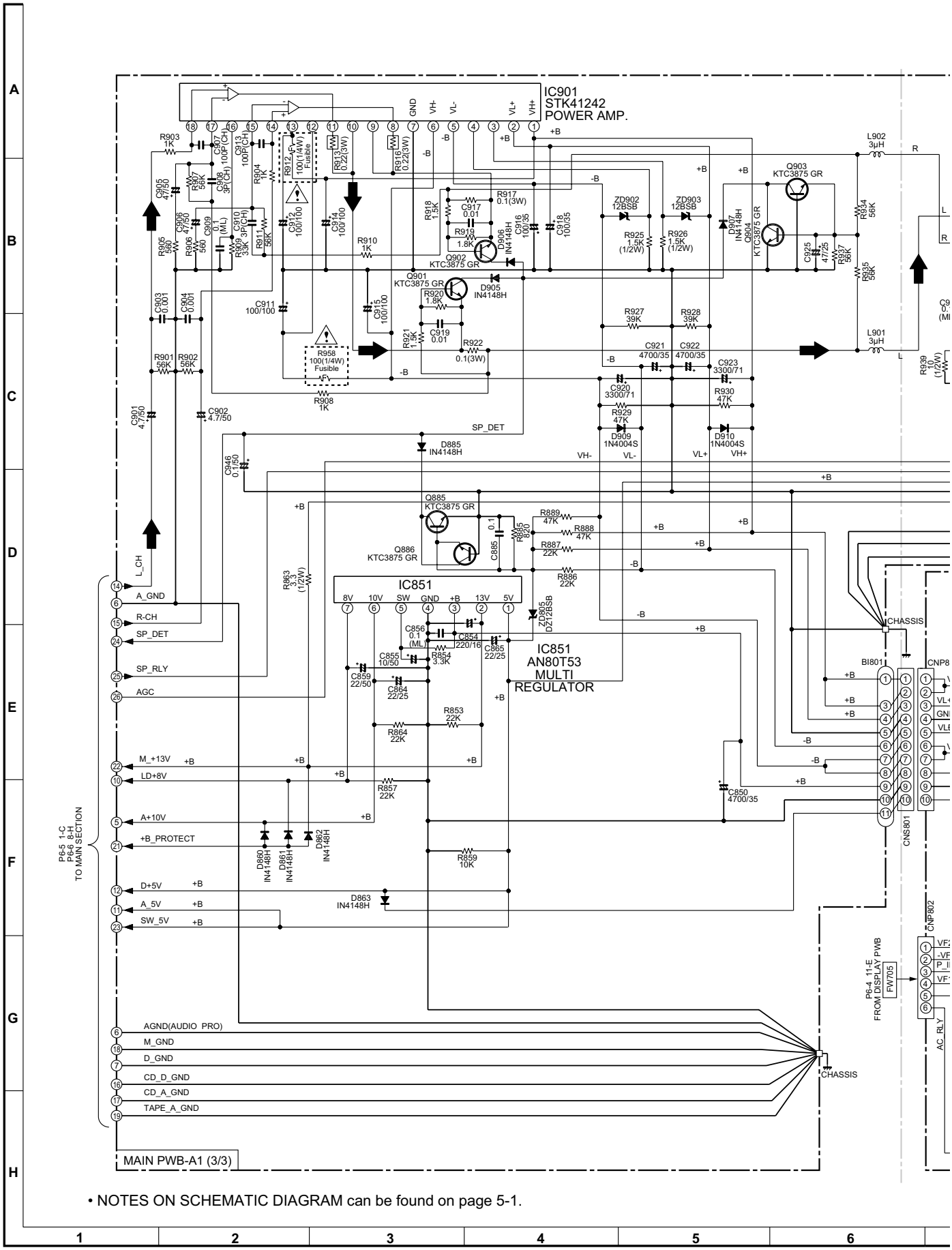
• NOTES ON SCHEMATIC DIAGRAM can be found on page 5-1.

Figure 6-5 SCHEMATIC DIAGRAM (5/10)



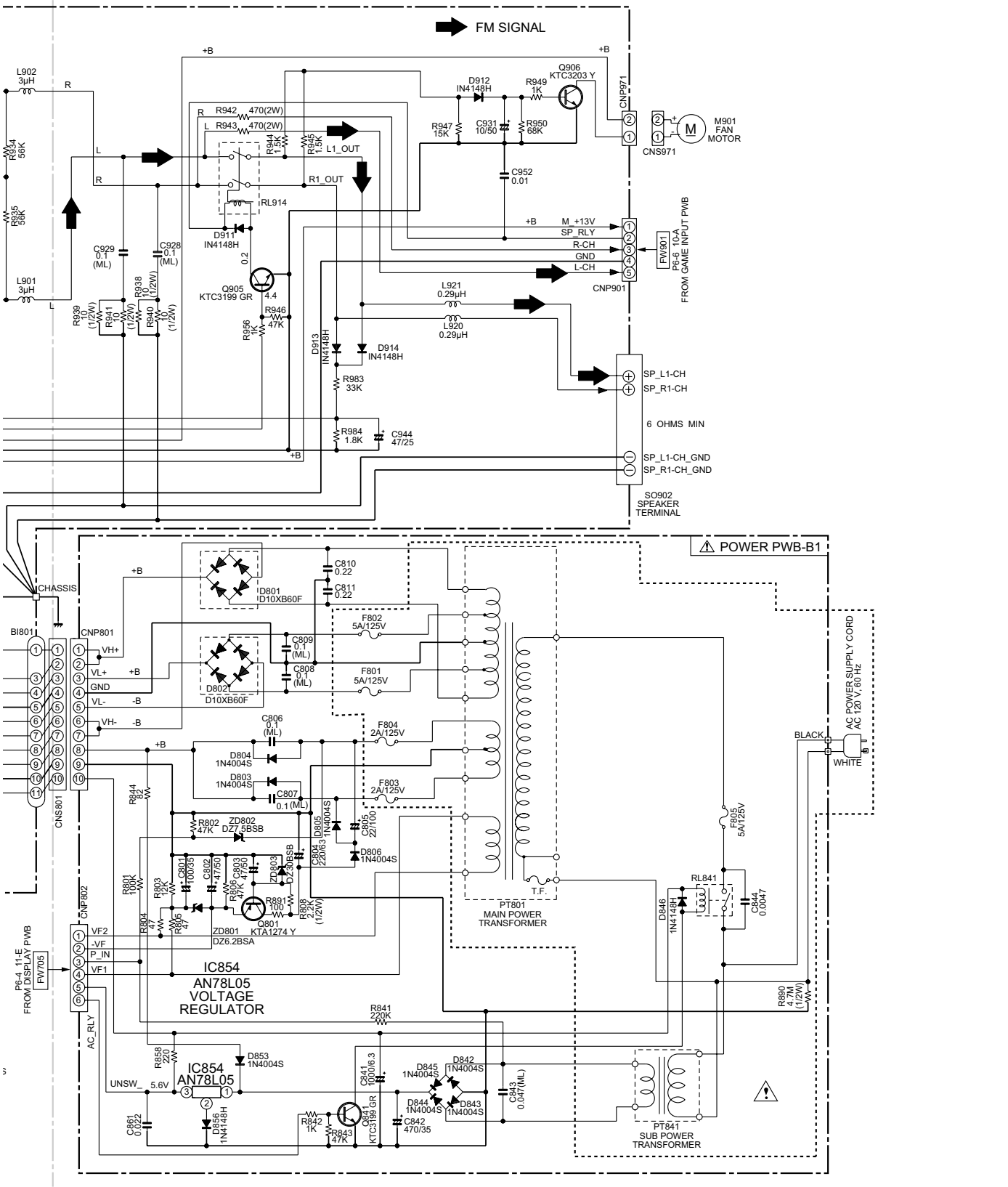
7	8	9	10	11	12

Figure 6-6 SCHEMATIC DIAGRAM (6/10)



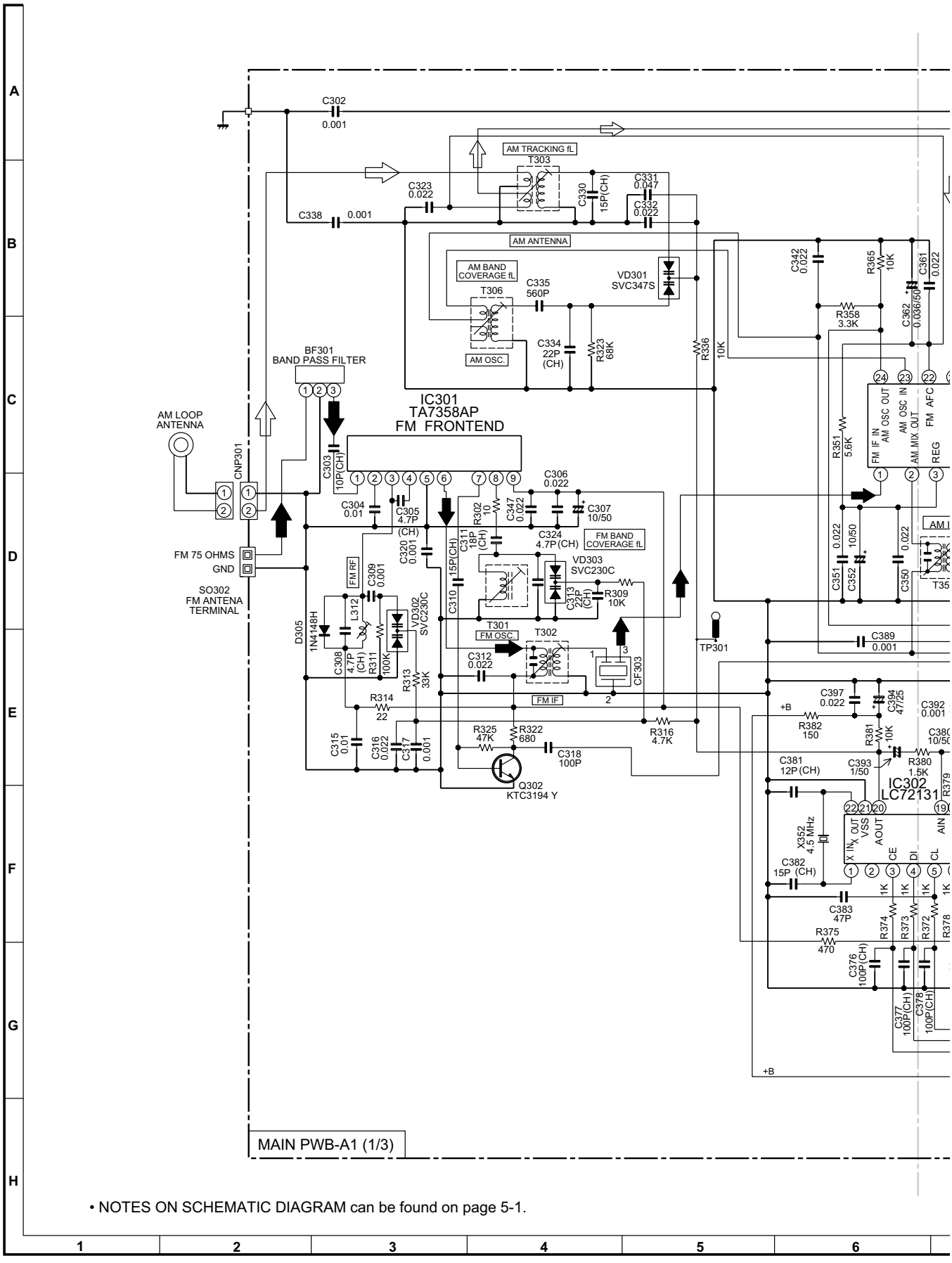
• NOTES ON SCHEMATIC DIAGRAM can be found on page 5-1.

Figure 6-7 SCHEMATIC DIAGRAM (7/10)



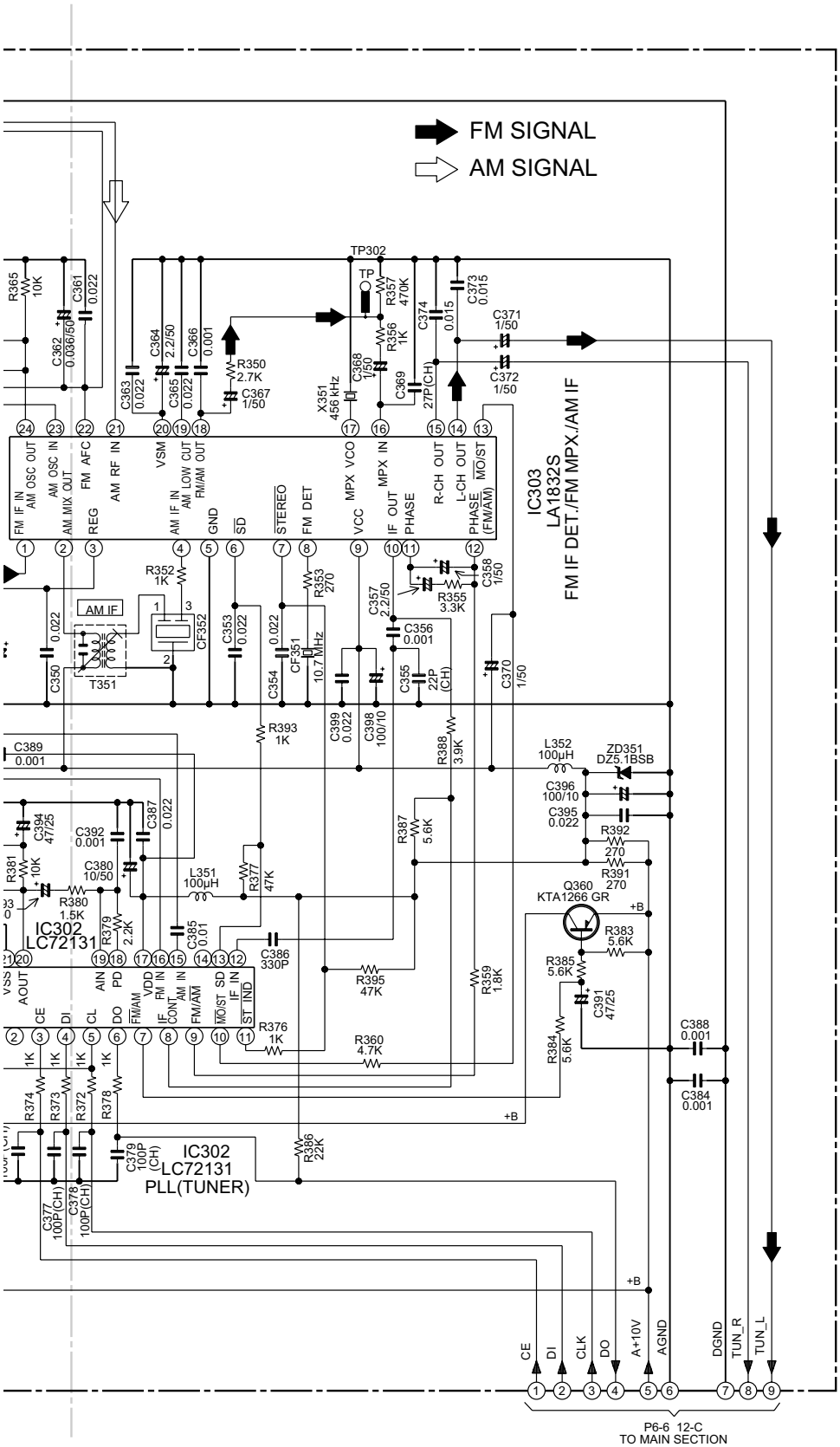
	7	8	9	10	11	12

Figure 6-8 SCHEMATIC DIAGRAM (8/10)



• NOTES ON SCHEMATIC DIAGRAM can be found on page 5-1.

Figure 6-9 SCHEMATIC DIAGRAM (9/10)



	7	8	9	10	11	12

Figure 6-10 SCHEMATIC DIAGRAM (10/10)

[2] Wiring side of PWB

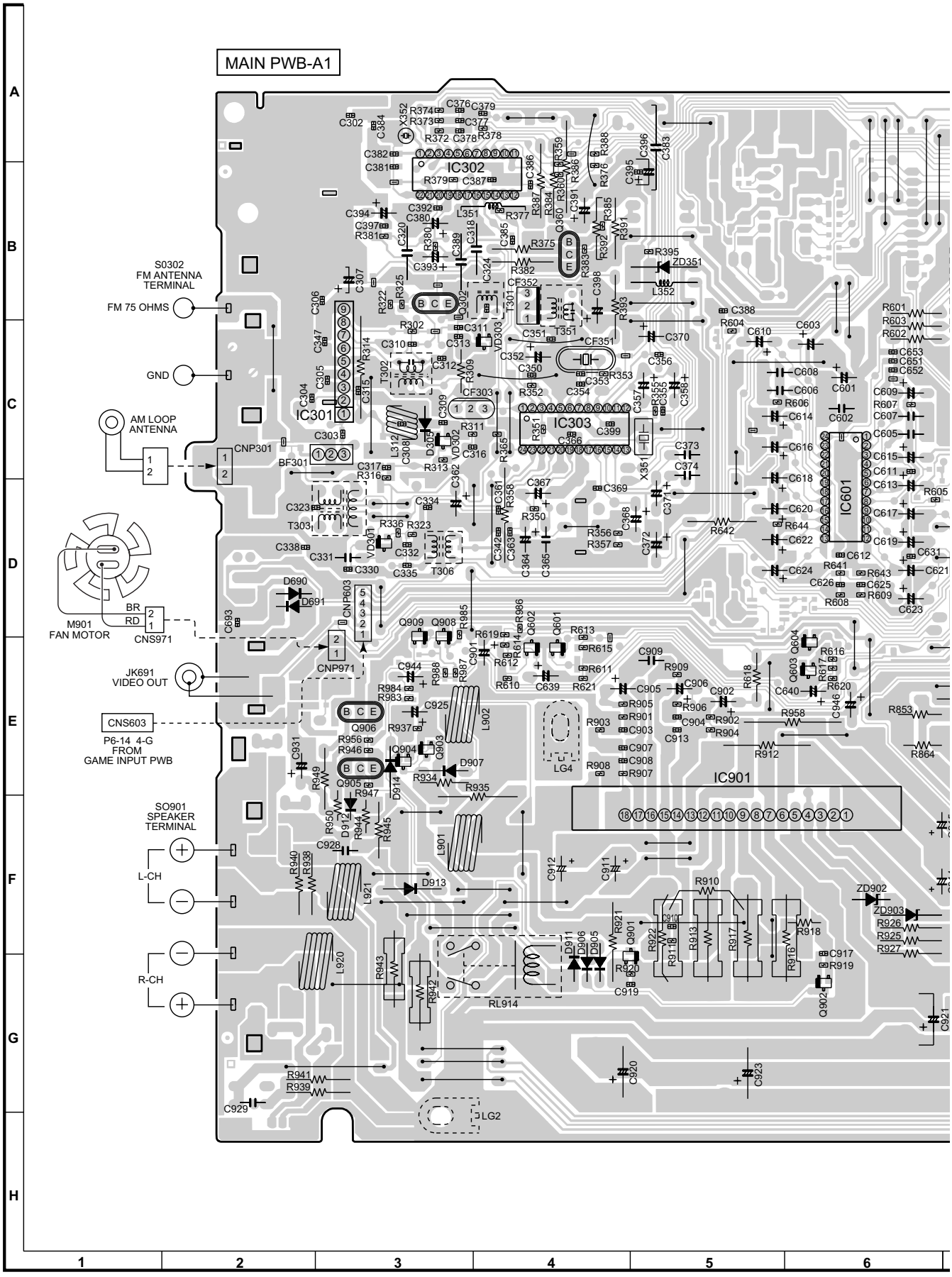
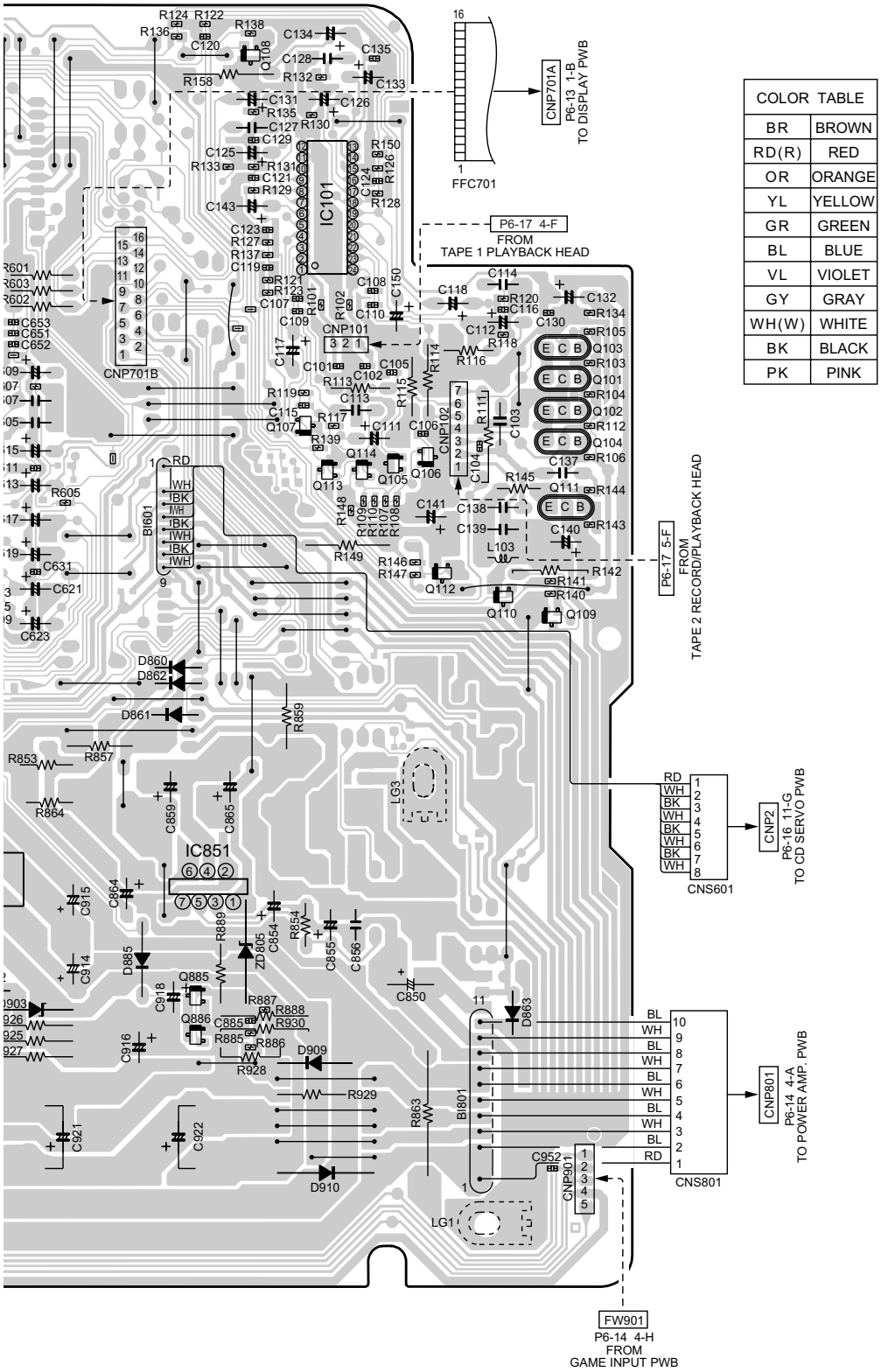


Figure 6-11 WIRING SIDE OF PWB (1/7)



	7	8	9	10	11	12

Figure 6-12 WIRING SIDE OF PWB (2/7)

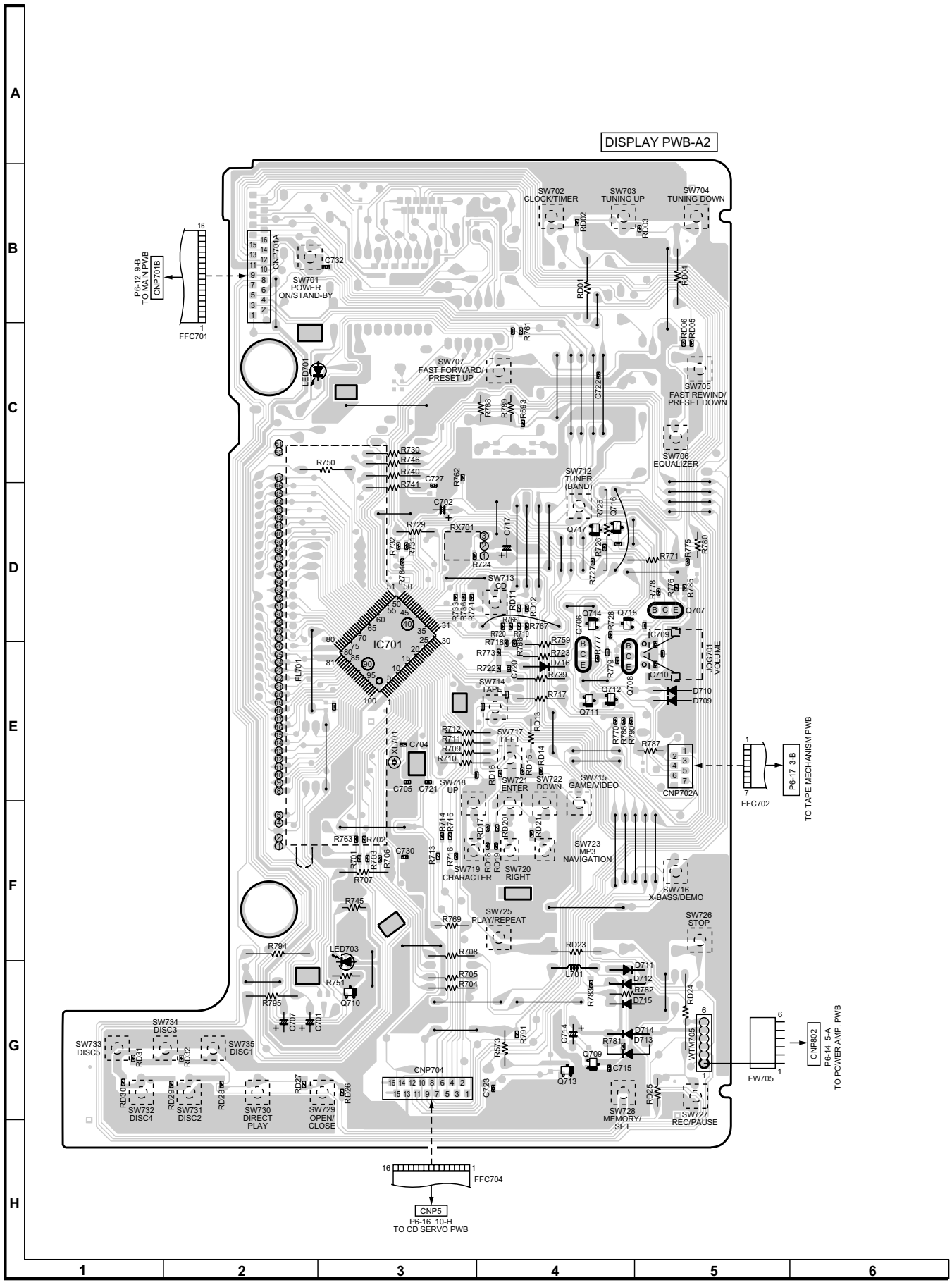


Figure 6-13 WIRING SIDE OF PWB (3/7)

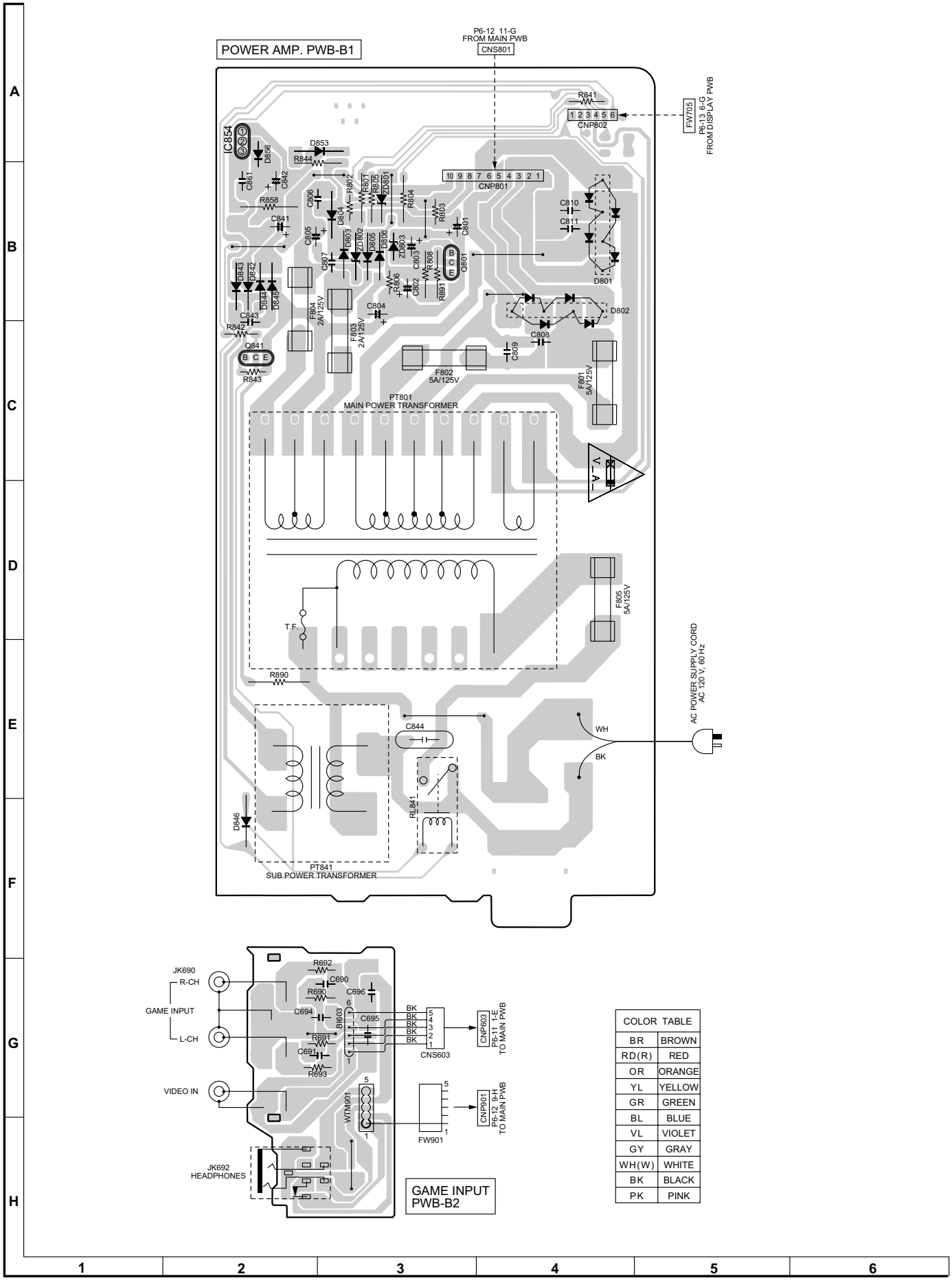
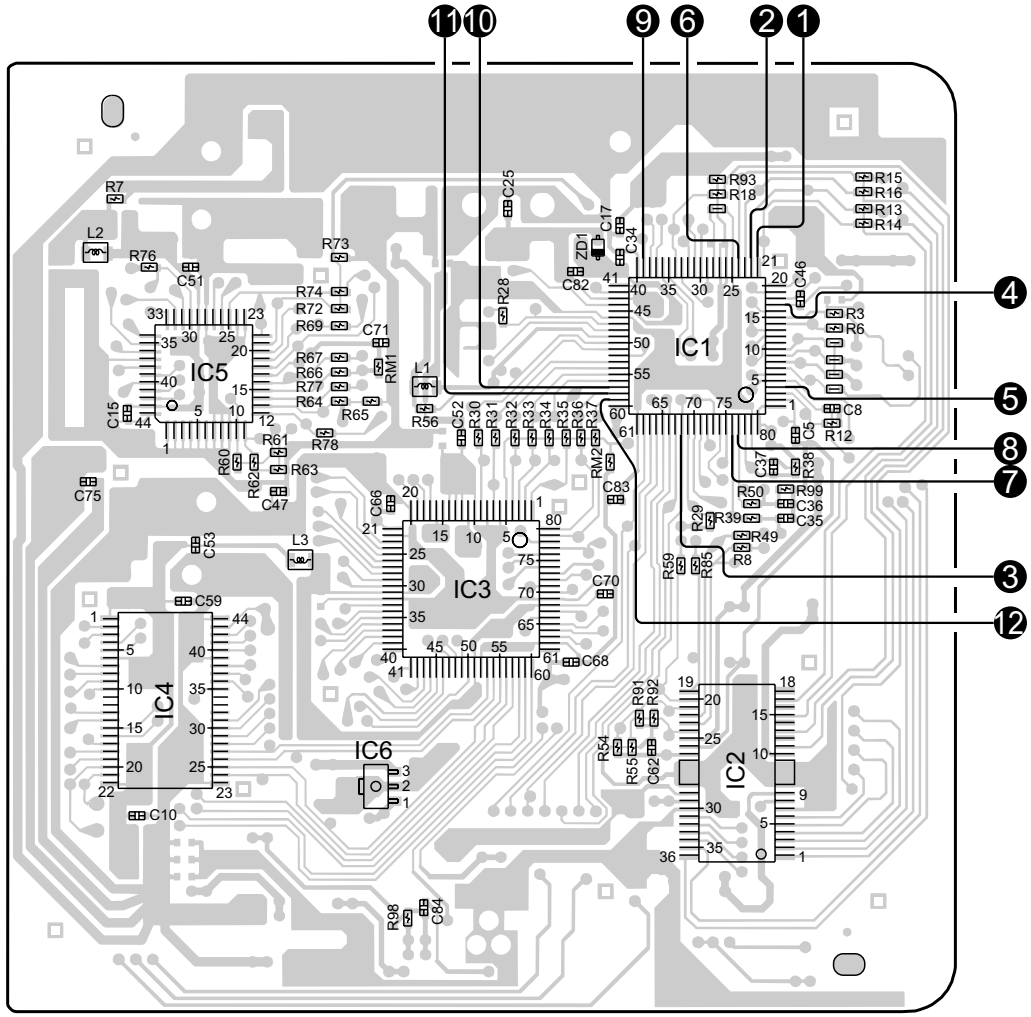
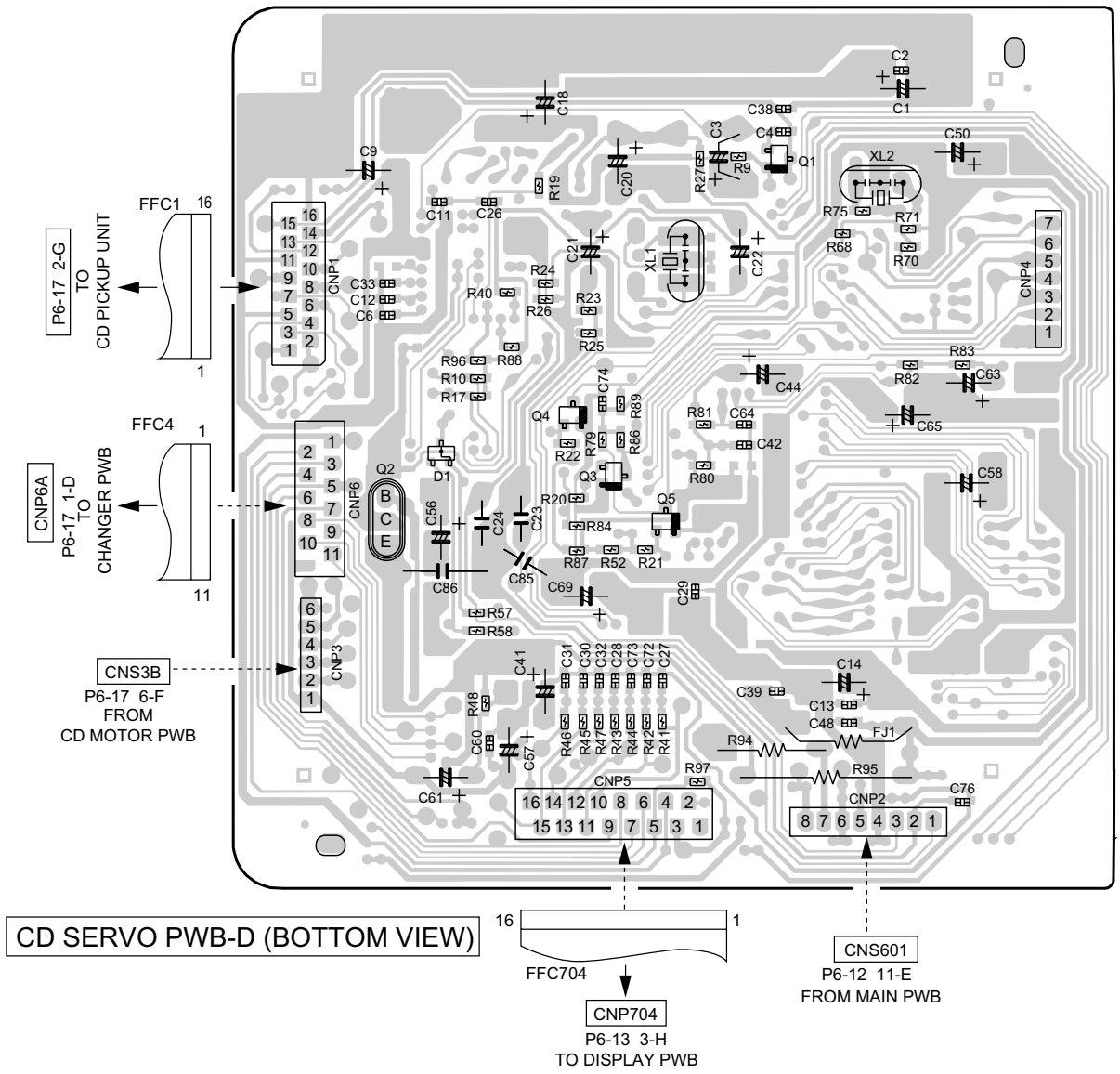


Figure 6-14 WIRING SIDE OF PWB (4/7)



CD SERVO PWB-D (TOP VIEW)

Figure 6-15 WIRING SIDE OF PWB (5/7)



• The number ❶ to ⓬ are waveform number shown in page 5-2.

	7	8	9	10	11	12

Figure 6-16 WIRING SIDE OF PWB (6/7)

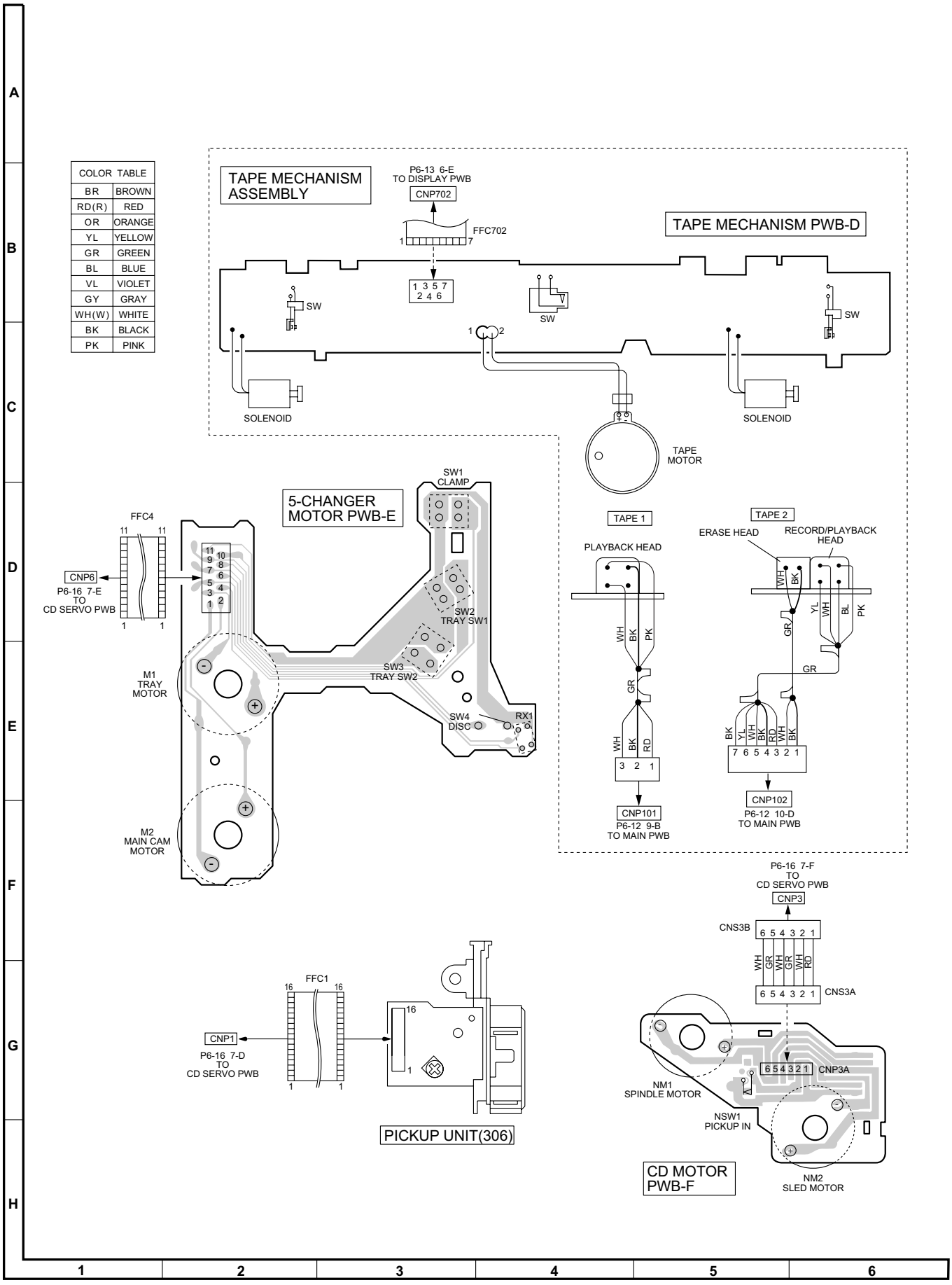


Figure 6-17 WIRING SIDE OF PWB (7/7)

CHAPTER 7. FLOWCHART

[1] Troubleshooting

1. When the CD does not function

The CD section may not operate when the objective lens of the optical pickup is dirty. Clean the objective lens, and check the playback operation. When this section does not operate even after the above step is taken, check the following items.

Remove the cabinet and follow the trouble shooting instructions.

"Track skipping and/or no TOC (Table Of Contents) may be caused by build up of dust other foreign matter on the laser pickup lens. Before attempting any adjustment make certain that the lens is clean. If not, clean it as mentioned below."

Turn the power off.

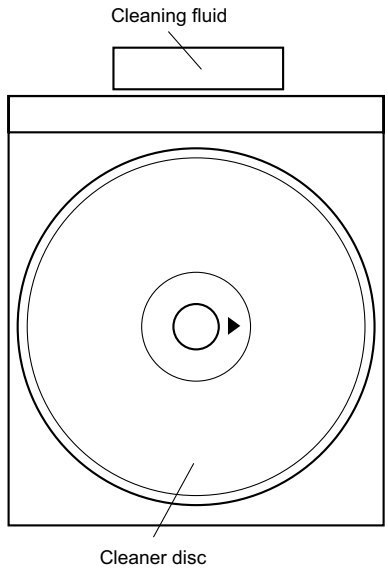
Gently clean the lens with a lens cleaning tissue and a small amount of isopropyl alcohol.

Do not touch the lens with the bare hand.

		Parts code
1.	CD optical pickup Lens cleaner disc	UDSKA0004AFZZ

HOW TO USE

1. Using the brush in the cleaner cap, apply 1 or 2 drops of the cleaning fluid to the brush on the CD cleaner disc which has the mark next to it.
2. Place the CD cleaner disc onto the CD disc tray with the brush side down, then press the play button.
3. You will hear music for about 20 seconds and the CD player will automatically stop. If it still play continuously, press the stop button.



CAUTION

- The CD lens cleaner should be effective for 30-50 operations, however if the brushes become worn out earlier then please replace the cleaner disc.
- If the CD cleaner brushes become very wet then wipe off any excess fluid with a soft cloth.
- Do not drink the cleaner fluid or allow it contact with the eyes. In the event of this happening then drink and / or rinse with clean water and seek medical advice.
- The CD cleaner disc must not be used on car CD players or on computer CD-ROM drives.
- All rights reserved. Unauthorized duplicating, broadcasting and renting this product is prohibited by law.

2. When a CD cannot be played

2.1. "E-CD01" is displayed.

1) Check the power to IC1 (LC78648E), the presence of the clock signal (16.9344 MHz) and the status of the RESET terminal (pin 67 on IC1).
2) Does the pickup move to the PICKUP-IN Switch (NSW1) position?

   If (1) and (2) are OK, check the system microcomputer (especially the communication line with the DSP).

2.2. Pressing the CD operation key is accepted, but playback does not occur.

1) Focus-HF system check
2) Tracking system check
3) Spin system check
4) PLL system check
5) Others

(1) Focus-HF system check.

Although a CD is inserted and the cover is closed, "NO DISC" is displayed.

Press the Tray1 CD Eject Button without inserting a disc, and try starting the playback operation.

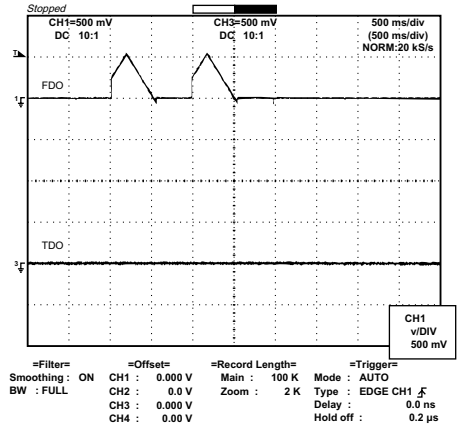


Figure 1

1. Does the pickup move to the PICKUP-IN Switch (NSW1) position ?
   - No → Sled motor (NM2).
   - Yes ↓

2. Does the focus (lens) move up and down ? (Waveform drawing Figure 1)
   - No → Check the focus peripheral circuit.
   - Yes ↓

3. Is the laser lit ?
   - No → Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

4. Is the turntable rotating ?
   - No → Spindle motor (NM1).

When a disc is loaded, start playback operation.

1. Is focus servo activated ? (Waveform drawing Figure 2)
   - No → Pins 7~11, 13,19 and 20 on IC1
     Check the laser diode driver Q1 peripheral circuit.
   - Yes ↓

2. Does DRF change from "L" to "H" ?
   - No → Is the disc rotating ?
     - No → Check the spin system.
       If the disc is spinning and a HF waveform is generated, DRF will go H.
     - Yes ↓

3. Is the HF waveform normal ? (Waveform drawing Figure 3)
   - No → If the level is not normal.

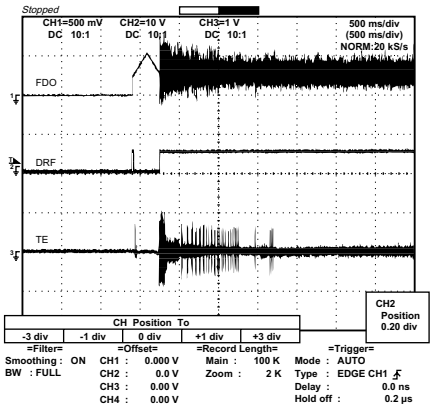


Figure 2

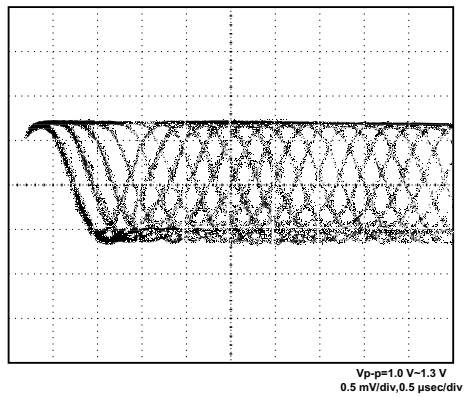


Figure 3

(2) Focus-HF system check.

Check the TE waveform at pin 17 on IC1.

If the waveform shown in Figure 4 appears and soon after NO DISC appears ?

Yes → The tracking servo is not activated.
Check the peripheral circuits at pins 16, 17 and 22 on IC1, and FFC1.

↓ No

"Initialization" is possible, but play is not possible ?

Yes → A normal jump operation cannot be completed or the beginning of the track cannot be found.
Check the around pin 22 on IC1.

↓ No

"Initialization" is not possible. → Data cannot be read. Check the VCO-PLL (Pin76~80 on IC1) system.

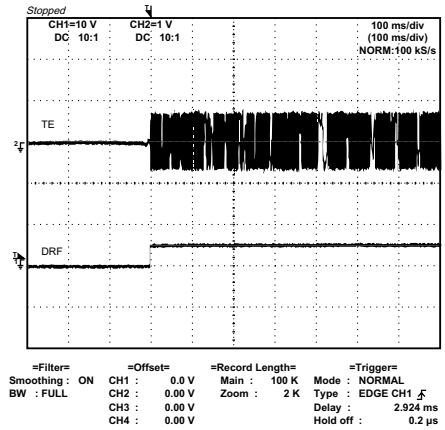

Stopped
CH1=10 V DC 10:1
CH2=1 V DC 10:1
100 ms/div
(100 ms/div)
NORM:100 kS/s
TE
DRF
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.0 V CH2 : 0.00 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH1 Delay : 2.924 ms Hold off : 0.2 µs

Figure 4

(3) Spin system check.

Press the OPEN/CLOSE switch without inserting a disc, and then try starting the play operation.

↓

1. The turntable rotates a little ?
(Waveform drawing Figure 5)

Yes → The spin driver circuit is OK.

↓ No

2. The turntable doesn't rotate. → Check around pin 24 on IC1, pins 3 and 4 on IC2, and CNS3A/ CNS3B.

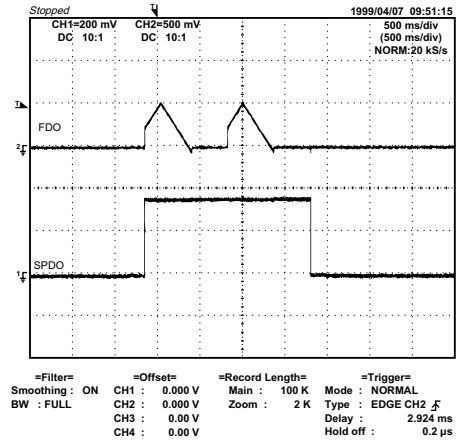

Stopped
1999/04/07 09:51:15
CH1=200 mV DC 10:1
CH2=500 mV DC 10:1
500 ms/div
(500 ms/div)
NORM:20 kS/s
FDO
SPDO
=Filter= Smoothing : ON BW : FULL
=Offset= CH1 : 0.000 V CH2 : 0.000 V CH3 : 0.00 V CH4 : 0.00 V
=Record Length= Main : 100 K Zoom : 2 K
=Trigger= Mode : NORMAL Type : EDGE CH2 Delay : 2.924 ms Hold off : 0.2 µs

Figure 5

(4) PLL system check.

When a disc is loaded, start play operation.

↓

The HF waveform is normal, but the TOC data cannot be read.

↓

Check the PDO waveform. (Figure 6)

↓

Check around pins 76~80 on IC1.

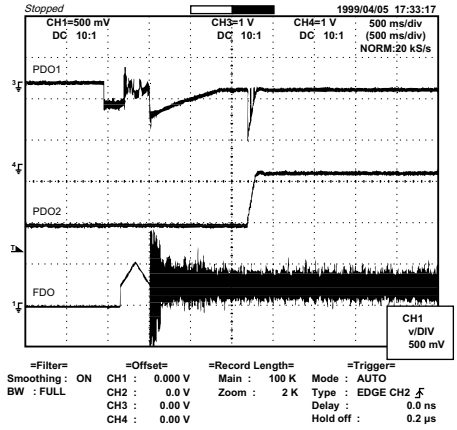


Figure 6

(5) Others.

The HF waveform is normal and the time is displayed normally, but no sound is produced. Or the sound has dropouts.

Is pin 69 (C2F) on IC1 "L" ? — No → There are too many error flags on a damaged disc which makes error correction impossible.

↓ Yes

1. When playing at normal speed.
Check the peripheral circuit at pin 39 (DOUT) on IC1 and the waveform (Figure 7).

↓

If OK, Check the unit.

↓

Check again using a known good disc.

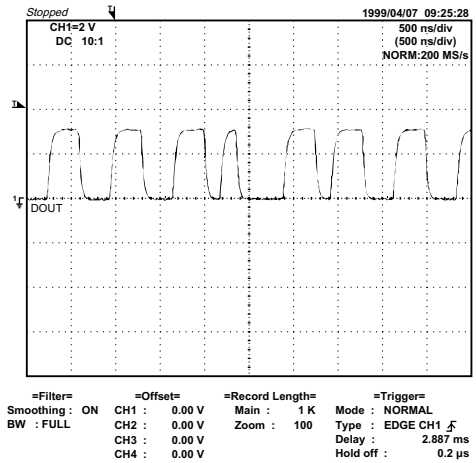


Figure 7

CHAPTER 8. OTHERS

[1] Function table of IC

IC1 VHiLC78648E-1: CD Servo (LC78648E) (1/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
1	AVDD1	Output	—	Analog power supply pin 1.	
2	SLCO	Output	—	slice level control.	Slice level Control output pin.
3	EFMIN	Input	—		RF signal input pin.
4	RF	Output	—	RF signal Output pin.	
5	LPF	Output	—	RF signal DC level detection LPF capacitor connection pin.	
6	JITTC	Input	—	Jitter detection capacitor connection pin.	
7	AIN	Input	—	A signal input pin.	
8	CIN	Input	—	C signal input pin.	
9	BIN	Input	—	B signal input pin.	
10	DIN	Input	—	D signal input pin.	
11	FEC	Output		FE signal LPF capacitor connection pin.	
12*	PHLPF/RFMON	Output	ZHI	Reference supply setting terminal.	
13	VREF	Output	AVDD1/2	VREF voltage output pin.	
14	EIN	Input	—	E signal input pin.	
15	FIN	Input		F signal input pin.	
16	TEC	Output		TE signal LPF capacitor connection pin.	
17	TE	Output	—	TE signal output pin.	
18	TEIN	Input	—	TES signal generation TE signal input pin	
19	LDD	Output	—	Laser power control signal output pin.	
20	LDS	Input	—	Laser power control signal input pin.	
21	FDO	Output	ADAVDD/2	Focus control output pin. D/A output.	
22	TDO	Output	ADAVDD/2	Tracking control output pin. D/A output.	
23	SLDO	Output	ADAVDD/2	Thread control output pin. D/A output.	
24	SPDO	Output	ADAVDD/2	Spindle control output pin. D/A output.	
25	AVSS2	—	—	Analog GND pin 2. Must always be connected to 0 V.	
26	AVDD2	—	—	Analog power supply pin 2.	
27	DVDD	—	—	Digital power supply pin.	
28	DVSS	—	—	Digital GND pin 2. Must always be connected to 0 V.	
29*	VPB	Output	H	Rough servo/phase control automatic switching monitor output pin.“H” for rough servo and “L” for phase servo.	
30*	DEFECT	Output	L	Defect signal output pin.	
31*	FSEQ	Output	L	Synchronization signal detection output pin. Outputs a high level when the Synchronization signal detection from the EFM signal and the internally generated Synchronization signal agree.	
32	EFLG	Output	L	C1, C2 error correction monitor pin	
33*	FSX	Output	L	7.35 kHz Synchronization signal output pin. CLV playback mode.	
34	CONT1	Input/Output	Input	General purpose I/O pin 1.	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open.
35	CONT2	Input/Output	Input	General purpose I/O pin 2.	
36	CONT3	Input/Output	Input	General purpose I/O pin 3.	
37*	MONI1	Input/Output	Input	External deiemphasis setting pin, INternal signal monitor pin 1. Controlled by microprocessor.	
38*	MONI2	Output	L	Internal signal monitor pin 2.	
39*	DOUT	Output	L	Digital OUT output Pin. (EIAJ format)	
40	TEST	Input	L	Test input pin. Must always be connected to 0 V.	
41	LVDD	—	—	Left channel D/A converter	L channel Power supply pin.
42	LCHO	Output	LVDD/2		L channel output supply pin.
43	LRVSS	—	—		LR channel GND pin. Must always be connected to 0 V.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

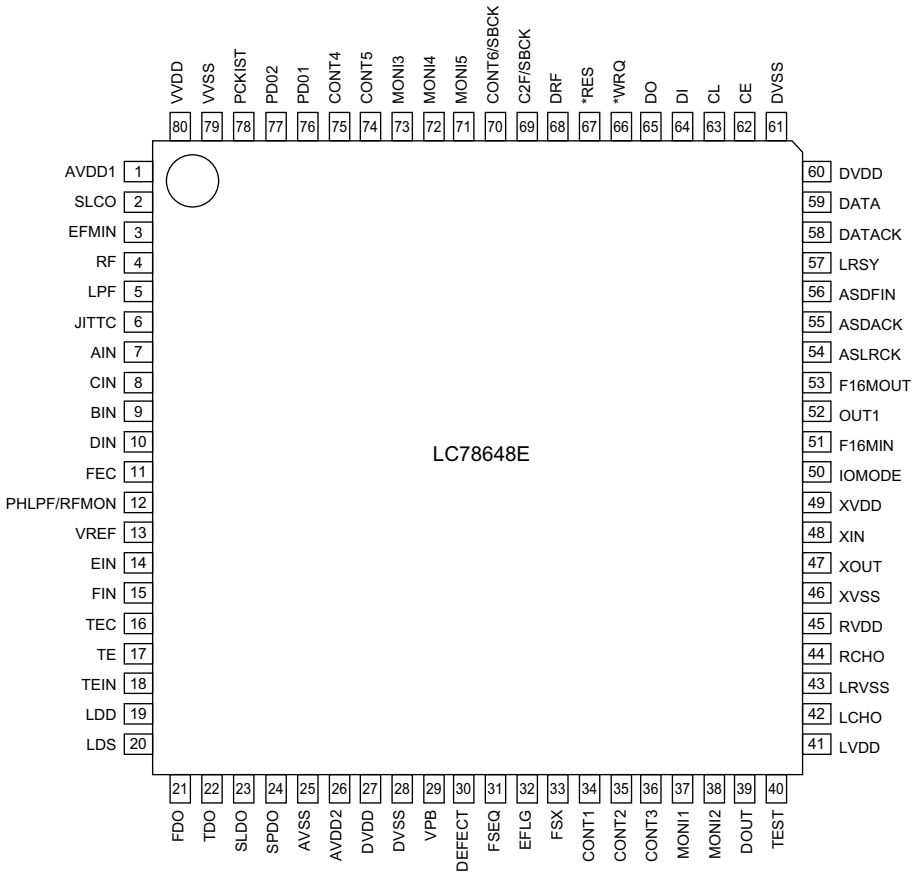
IC1 VHiLC78648E-1: CD Servo (LC78648E) (2/2)

Pin No.	Terminal Name	Input/Output	Setting in Reset	Function	
44	RCHO	Output	RVDD /2	Right channel D/A converter	R channel Power supply pin.
45	RVDD	—	—		R channel output supply pin.
46	XVSS	—	—	Digital GND pin. Must always be connected to 0 V	
47	XOUT	Output	Oscillator	Crystal oscillator	Power supply for crystal oscillator. Connected for a 16.9344 MHz crystal oscillator pin.
48	XIN	Input	Oscillator		
49	XVDD	—	—	Digital power supply pin. Must always be connected to 0 V	
50	IOMODE	Input	—	CONT4 to 6. MONI3~5, DRF, WRQB pin output mode switching input pin. ”L” setting: Normal output “H” setting: Nch open drain output	
51	F16MIN	Input	—	DF. DAC external clock input pin.	
52*	OUT1	Output	L	General-purpose output pin 1.	
53	16MOUT	Output	CLK Output	16.9344 MHz output port.	
54	ASLRCK	Input	—	Anti-shock	Left/Right clock input pin. (Must be connect to 0 V when unused.)
55	ASDACK	Input	—		Bit clock input pin. (Must be connect to 0 V when unused.)
56	ASDFIN	Input	—		Left/Right channel data input pin. (Must be connect to 0 V when unused.)
57	LRSK	Output	L	Digital data output	Left/Right channel data output pin.
58	DATACK	Output	L		Bit clock output pin.
59	DATA	Output	L		Left/Right clock output pin.
60	DVDD	—	—	Digital power supply pin.	
61	DVSS	—	—	Digital GND pin 2. Must always be connected to 0 V.	
62	CE	Input	—	Microcom-puter Interface	Chip enable signal input pin.
63	CL	Input	—		Data transfer clock input pin.
64	DI	Input	—		Data output pin.
65	DO	Output	(H)		Data output pin. (Try state output.)
66	WRQB	Output	L	Interruption signal output pin.	
67	RESB	Input	—	Reset input pin for LSI. This pin must be set LOW briefly after power is first applied.	
68	DRF	Output	L	Focus ON detection pin.	
69	C2F/SBCK	Input/Output	Input	Error flag monitor pin, or sub code read clock input pin.	Controlled by commands from the microprocessor.
70	CONT6/SBCK	Input/Output	Input	General-purpose I/O pin 6, or sub code read clock input pin.	Controlled by commands from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open.
71*	MONI5	Output	L	Internal signal monitor pin 5.	
72*	MONI4	Output	L	Internal signal monitor pin 4.	
73	MONI3	Output	L	Internal signal monitor pin 3.	
74	CONT5	Input/Output	Input	General purpose I/O pin 5.	Controlled by command from the microprocessor. Any of these that are unused must be either set up as input pin ports and connected to 0 V, or set up as output pin ports and left open when unused.
75	CONT4	Input/Output	Input	General purpose I/O pin 4.	
76	PDO1	Output	—	PLL	Phase comparison output pin 1 to control built-in VCO.
77	PDO2	Output	—		Phase comparison output pin 2 to control built-in VCO.
78	PCKIST	Input	—		Resistor connection pin to set current for PDO1 and 02 outputs.
79	VVSS	—	—		Built-in VCO GND pin. Must always be connected to 0 V.
80	VVDD	—	—		Built-in VCO power supply pin.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

The same potential must be supplied to all power supply pins, i, e., AVDD1, AVDD2, XVDD, DVDD, LVDD and RVDD)

IC1 VHiLC78648E-1: CD Servo (LC78648E)



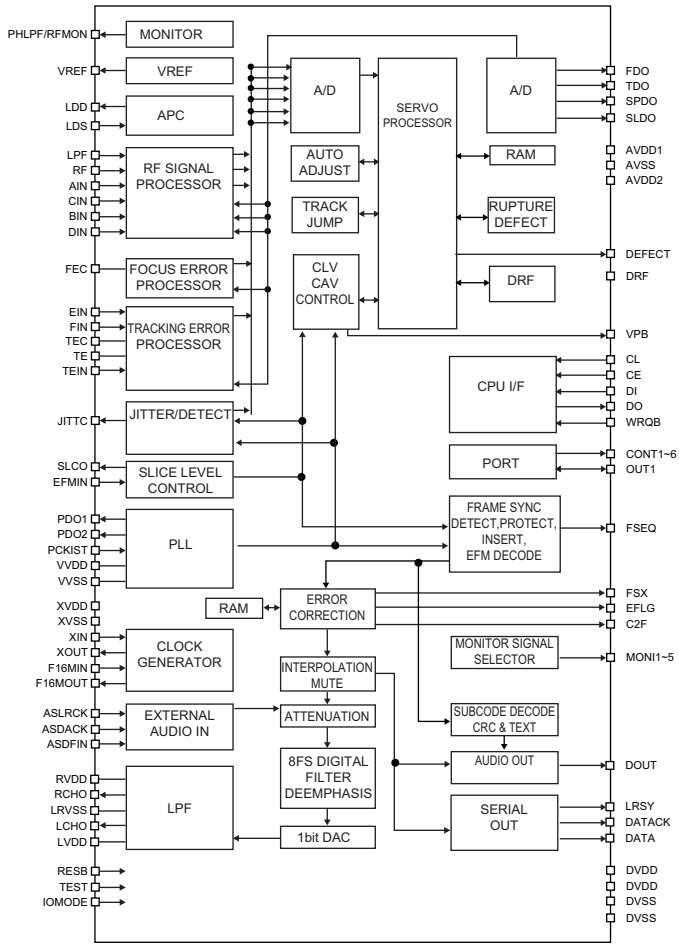


Figure 8-3 BLOCK DIAGRAM OF IC

IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)

Pin No.	Terminal Name	Function
1	VO3+	BTL Output pin (+) for channel 3.
2	VO3-	BTL Output pin (-) for channel 3.
3	VO2+	BTL Output pin (+) for channel 2.
4	VO2-	BTL Output pin (-) for channel 2.
5	VO1+	BTL Output pin (+) for channel 1.
6	VO1-	BTL Output pin (-) for channel 1.
7	PGND1	Power GND for channels 1,2,3 and 4 (BTL).
8	REGIN	Regulator pin (External PNP base).
9	PVCC1	Power for channels 1,2,3 and 4 (BTL). (SVCC short-crircuited)
10	REGOUT	Regulator pin (External PNP collector).
11	VIN1	Input pin for channel 1
12*	VIN1G	Input pin for channel 1 (for gain control)
13	VIN2	Input pin for channel 2
14*	VIN2G	Input pin for channel 2 (for gain control)
15	VIN3	Input pin for channel 3
16*	VIN3G	Input pin for channel 3 (for gain control)
17	VIN4	Input pin for channel 4
18*	VIN4G	Input pin for channel 4 (for gain control)
19	FWD5	CH5 Output change pin (FWD). Logic input for bridge.
20	REV5	CH5 Output change pin (REV). Logic input for bridge.
21	VCONT5	Input pin for CH5 output voltage control
22	FWD6	CH6 Output change pin (FWD). Logic input for bridge.
23	REV6	CH6 Output change pin (REV). Logic input for bridge.
24	VCONT6	Input pin for CH5 output voltage control.
25	VREFIN	Reference voltage input pin.
26	SGND	Signal system GND
27	SVCC	Signal system power (PVCC1 short - circuited)
28	PVCC2	Power for channel 5 and 6 (H bridge).
29	MUTE	Input pin for BTL mute.
30	PGND2	Power GND for channels 5 and 6 (H bridge).
31	VO6+	H bridge Output pin (+) for channel 6.
32	VO6-	H bridge Output pin (-) for channel 6.
33	VO5+	H bridge Output pin (+) for channel 5.
34	VO5-	H bridge Output pin (-) for channel 5.
35	VO4+	BTL Output pin (+) for channel 4.
36	VO4-	BTL Output pin (-) for channel 4.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

* Set power system GND to the minimum potential together with SGND

* Short-circuit three pins of power system SVSS and PVCC1 externally before use.

IC2 VHILA6261//-1: Focus/Tracking/Spin/Sled Driver (LA6261)

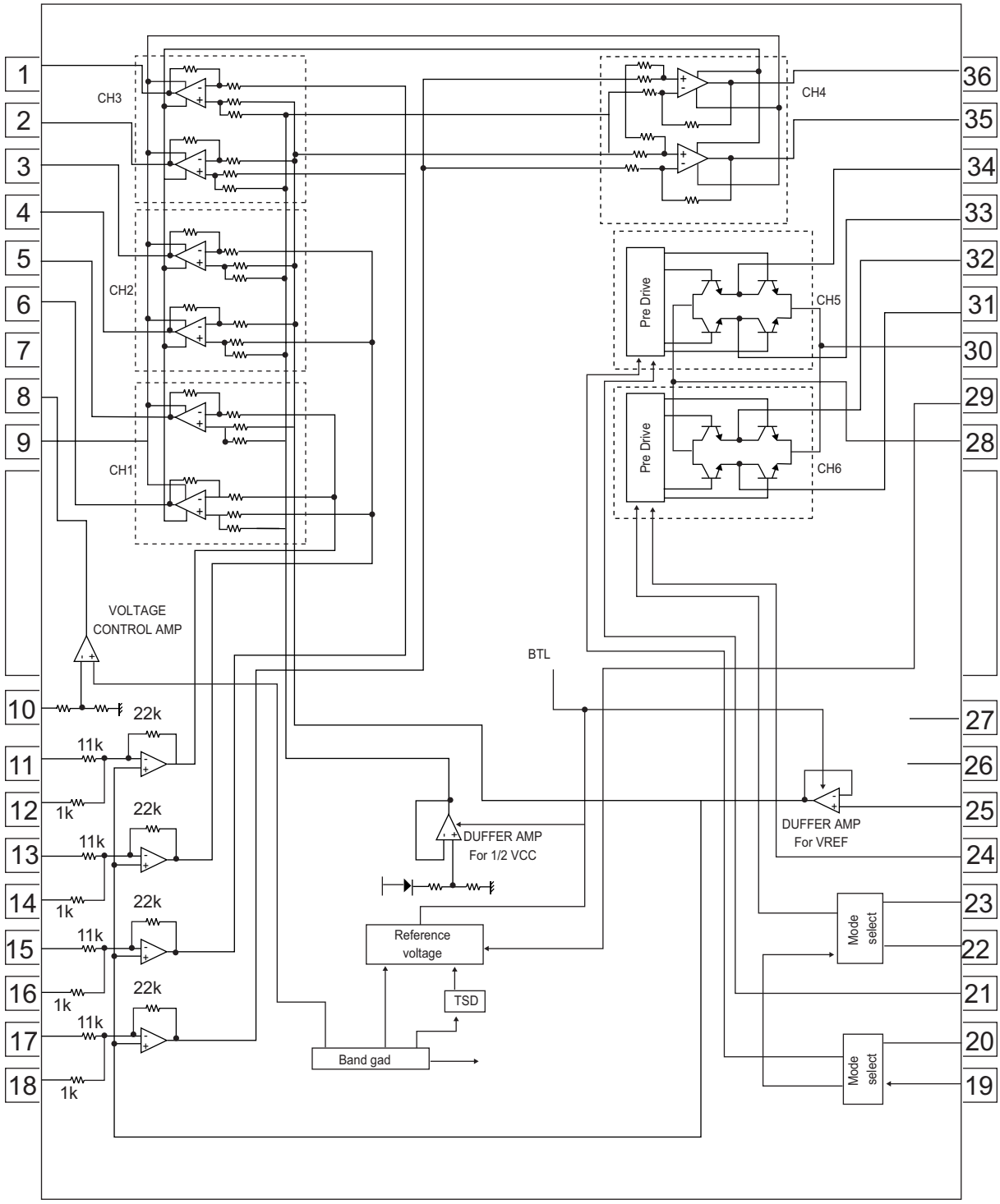


Figure 8-5 BLOCK DIAGRAM OF IC

IC601 VHiLC75341/-1: Audio Processor (LC75341)

Pin No.	Terminal Name	Function
1	DI	Serial data and clock input pin for control.
2	CE	Chip enable pin. Data written into an internal latch in a timing of "H" to "L". Each analog switch is activated. Data transfer enabled at "H" level.
3	VSS	Ground pin.
4	LOUT	Bass band filter comprising capacitor and resistor connection pin and bass/treble output pin.
5	LBASS	Bass band filter comprising capacitor and resistor connection pin.
6	LTRE	Treble band filter comprising capacitor and resistor connection pin.
7	LIN	Volume + equalizer output pin.
8	LSEL0	Input selector output pin.
9-12	L4-1	Input signal pin.
13-16	R1-4	Input signal pin.
17	RSEL0	Input selector output pin.
18	RIN	Volume + equalizer output pin
19	RTRE	Treble band filter comprising capacitor and resistor connection pin.
20	RBASS	Bass band filter comprising capacitor and resistor connection pin.
21	ROUT	Bass band filter comprising capacitor and resistor connection pin and bass/ treble output pin.
22	VREF	0.5x VDD voltage generation block for analog ground. Capacitor of several 10µF to be connected between VREF and AWSS (VSS) as a countermeasure against power ripple.
23	VDD	Supply pin
24	CLK	Serial data and clock input pin for control.

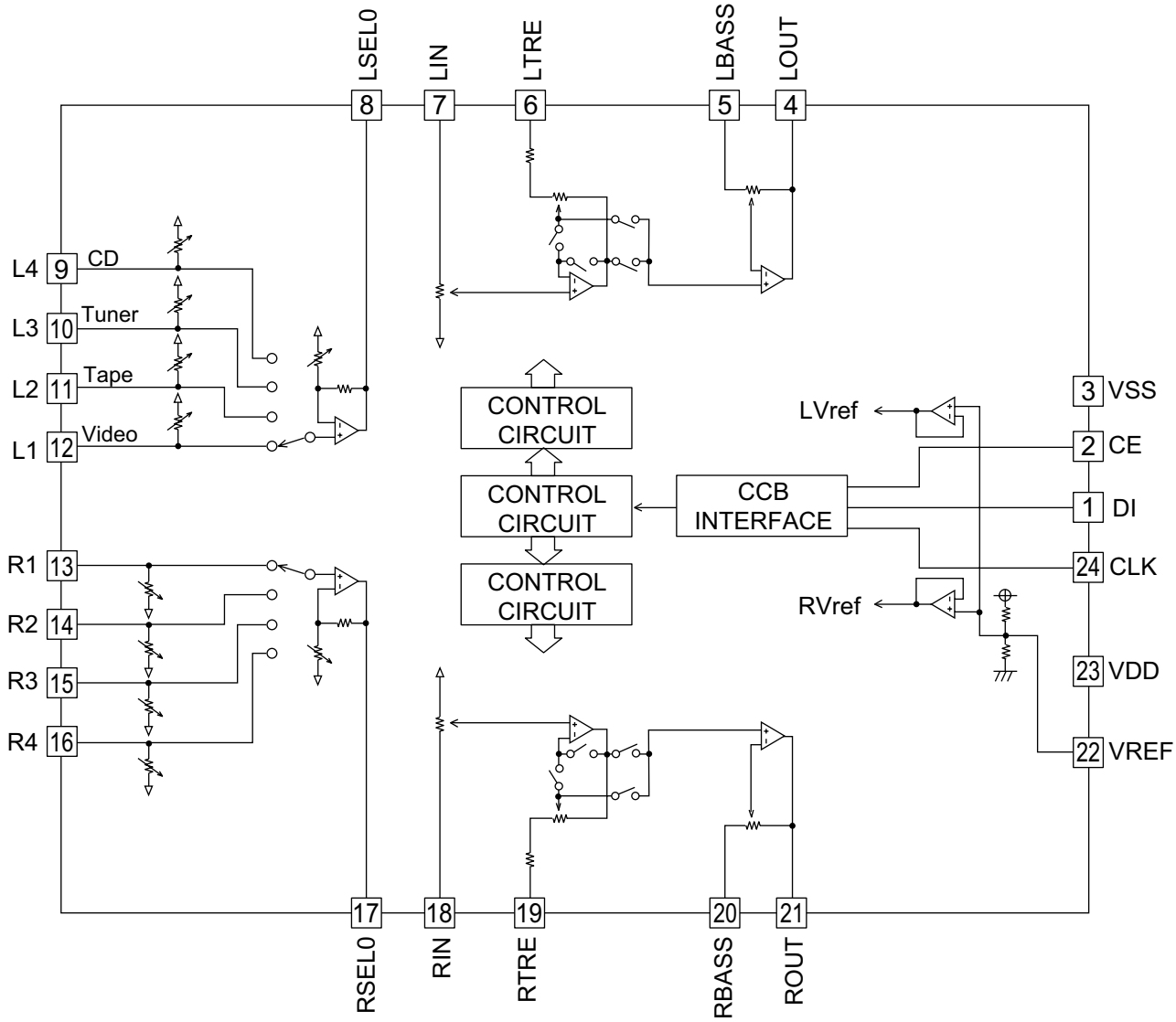


Figure 8-6 BLOCK DIAGRAM OF IC

IC701 RH-iXA022AWZZ: System Microcomputer (IXA022AW) (1/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
1	VDD	VDD	Input	(+) Power supply 5 V.
2	P37	-20dBATT	Output	-20dB Attenuator.
3	P36	T BIAS	Output	Tape record bias control.
4	P35	T_REC/PLAY	Output	Tape REC/PLAY control.
5	P34	T_T1/T2	Output	Tape T1/T2 Control.
6	P33	CD RESOUT	Output	CD Reset.
7	P32	CD_WRQ	Input	CD WRQ input.
8	P31	SUB CE	Output	MP3 Sub-micom CE.
9	P30	ILLU LED	Output	FL Edge light control.
10	RESET	RESET	Input	Reset Input.
11	X2	XOUT	Output	Main clock output 4.19 MHz.
12	X1	XIN	Input	Main clock input 4.19 MHz.
13	IC(VPP)	VPP	—	GND
14*	XT2	NO USE	—	Open
15	P04	CD_DRF	Input	CD DRF detect.
16	VDD	VDD	Input	(+) Power supply 5 V.
17	P27	CLK	Output	Clock output.
18	P26	DI	Output	Data output.
19	P25	DO	Input	Data input.
20	P24	CE	Output	CE Output.
21	P23	CD CE	Output	CD Chip enable.
22	P22	CD CLK	Output	CD Clock.
23	P21	CD DI	Output	CD Data output.
24	P20	CD DO	Input	CD Data input.
25	AVSS	AVSS	—	Analog ground.
26	ANI7	T RUN PULS	Input	Tape T1/T2 Run Pulse detect.
27	ANI6	TUN SM	Input	Tuner signal meter.
28	ANI5	T_FP SW	Input	Tape Fool Proof A & B SW.
29	ANI4	PROTECT	Input	Power abnormal detect.
30	ANI3	VOL JOG	Input	Volume jog input.
31-33	ANI2-ANI0	KEY 2-KEY 0	Input	Key input.
34	AVDD	AVDD	Input	Analog power supply 5 V.
35	AVREF	AVREF	Input	Analog reference voltage 5 V.
36	INTP3	P_IN	Input	Power failure detect.
37	P02	PHOTO	Input	5-Changer Photo SW.
38	INTP1	SP DET	Input	Speaker abnormal detect.
39	INTP0	REMOCON	Input	Remocon input.
40	VSS	VSS	—	Ground voltage.
41	P74	S MUTE	Output	System mute control.
42	P73	TIMER LED	Output	Timer LED control.
43	P72	T_SOL B	Output	Tape 2 solenoid control.
44	P71	T_MOTOR	Output	Tape motor control.
45	P70	T_SOL A	Output	Tape 1 solenoid control.
46	VDD	VDD	Input	(+) Power supply 5 V.
47	P127	SP RLY	Output	Speaker relay control.
48	P126	AC RLY	Output	AC relay control.
49*	P125	RDS RST	Output	RDS reset.
50*	P124	RDS READY	Input	RDS ready.
51*	P123	RDS RDDA	Input	RDS data.
52*	P122	RDS RDCL	Output	RDS clock.
53	P121	TRAY SW2	Input	5-Changer Tray SW2.
54	P120	TRAY SW1	Input	5-Changer Tray SW1.
55	P117	DISC SW	Input	5-Changer Disc SW.
56	P116	CLAMP SW	Input	5-Changer Clamp SW.
57	P115	DIST	Input	Destination input.
58-68	FIP41-FIP31	S30-S20	Output	FL Segment driver.
69	P101/FIP30	S19/DEST0	Input	FL segment driver/Destination input.
70	P100/FIP29	S18/DEST1	Output	FL segment driver/Destination input.
71	P97/FIP28	S17/DEST2	Output	FL segment driver/Destination input.
72	P96/FIP27	S16/DEST3	Output	FL segment driver/Destination input.

In this unit, the terminal with asterisk mark (*) is (open) terminal which is not connected to the outside.

IC701 RH-iXA022AWZZ: System Microcomputer (IXA022AW) (2/2)

Pin No.	Port Name	Terminal Name	Input/Output	Function
73-78	FIP26-FIP21	S15-S10	Output	FL segment driver.
79	VLOAD	VLOAD	Input	VLOAD -35 V
80-88	FIP20-FIP11	S9-S1	Output	FL segment driver.
89-100	FIP10-FIP0	G12-G1	Output	FL grid driver.

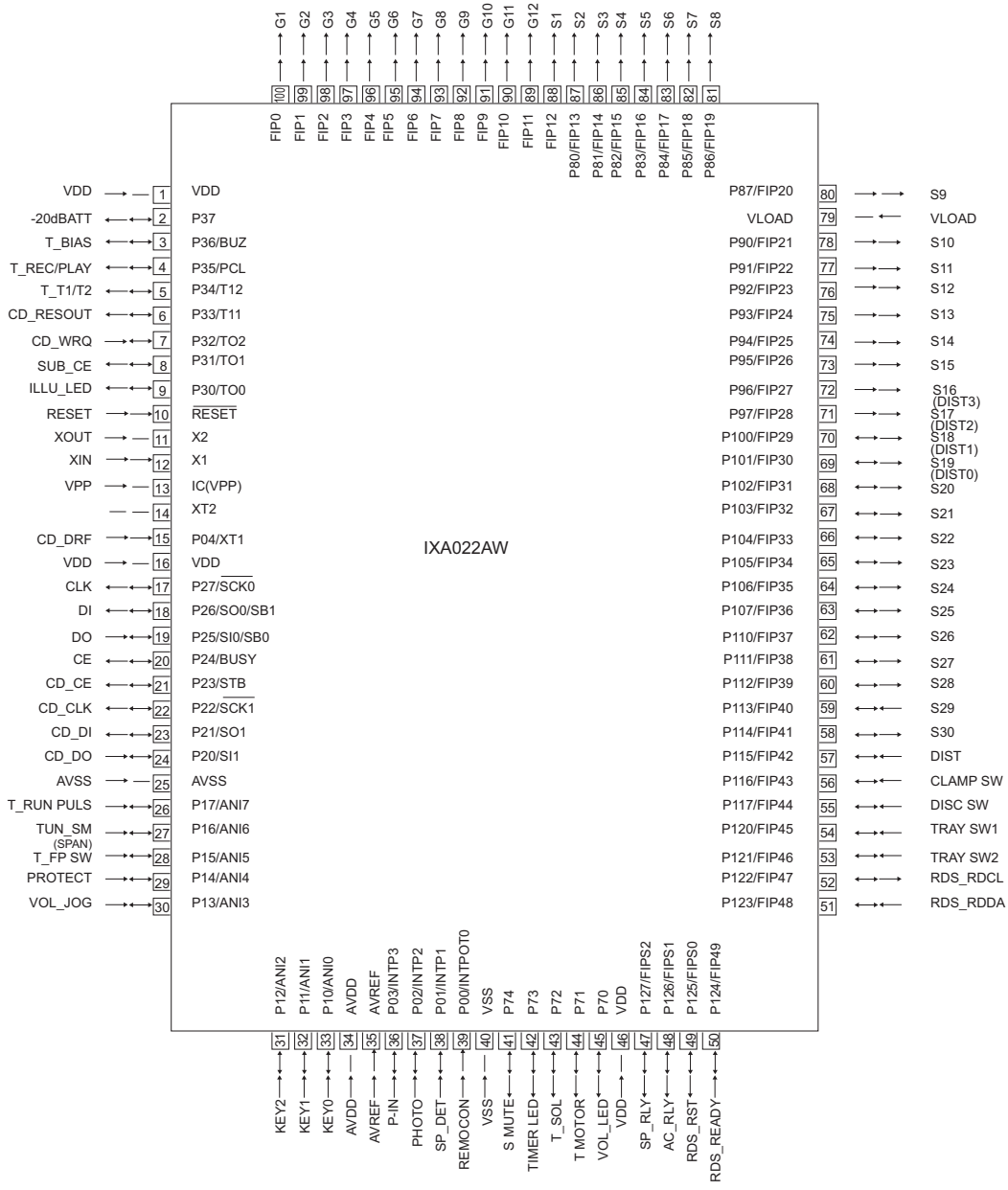


Figure 8-8 BLOCK DIAGRAM OF IC

IC851 VHIAN80T53/-1: Multi Regulator (AN80T53)

Pin No.	Terminal Name	Function
1	REG4 Output	5.1 V power supply with a minimum peak out current of 1200 mA.
2	REG3 Output	13 V power supply with a minimum peak out current of 1350 mA.
3	VCC	Connected to Power supplies.
4	GND	Connected to the IC substrate.
5	MODE 1	REG1, REG2,REG3 and REG4 outputs are turned ON when this pin is 5 V.
6	REG2 Output	10 V power supply with a minimum peak out current of 800 mA.
7	REG1 Output	8.5 V power supply with a minimum peak out current of 700 mA.

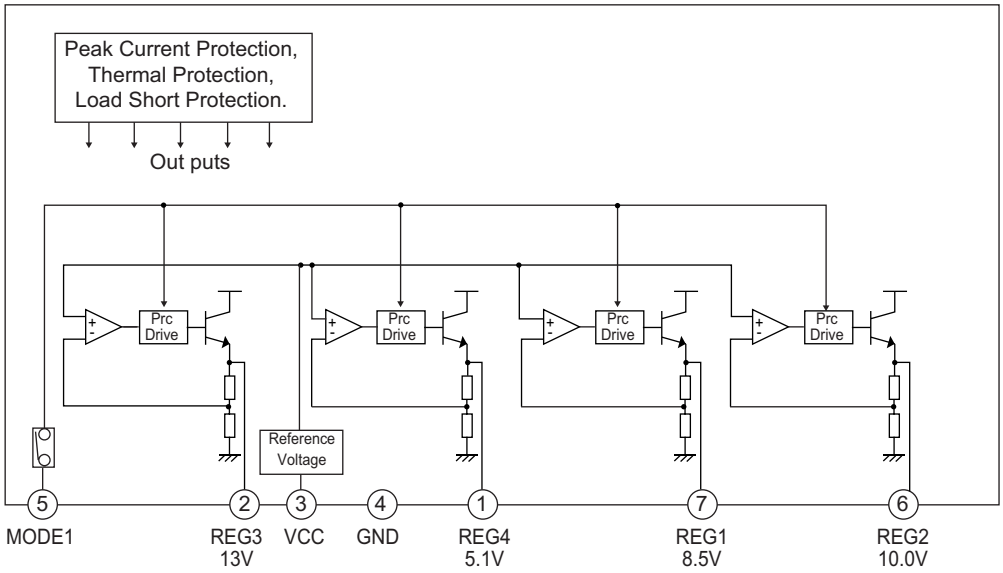
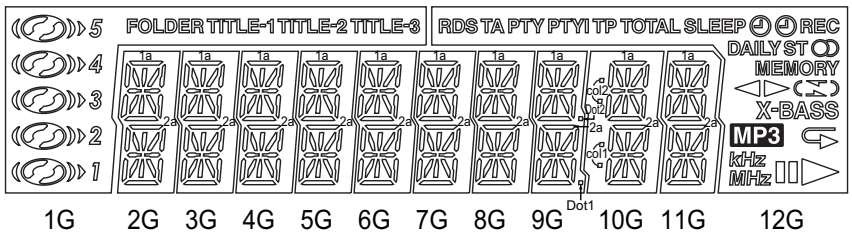


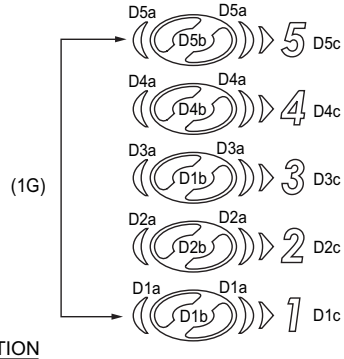
Figure 8-9 BLOCK DIAGRAM OF IC

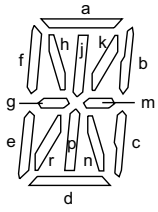
[2] FL Display

FL701: VVKNA12MM44-1

GRID ASSIGNMENT







ANODE CONNECTION

	1G	2G	3G	4G	5G	6G	7G	8G	9G	10G	11G	12G
P1	FOLDER	1a	1a	1a	1a	1a	1a	1a	1a	1a	1a	
P2	TITLE-1	1b	1b	1b	1b	1b	1b	1b	1b	1b	1b	
P3	TITLE-2	1k	1k	1k	1k	1k	1k	1k	1k	1k	1k	TOTAL
P4	TITLE-3	1j	1j	1j	1j	1j	1j	1j	1j	1j	1j	RDS
P5	5	1h	1h	1h	1h	1h	1h	1h	1h	1h	1h	TA
P6	D5-a	1f	1f	1f	1f	1f	1f	1f	1f	1f	1f	PTY
P7	D5-b	1m	1m	1m	1m	1m	1m	1m	1m	1m	1m	PTYI
P8	D5-c	1d	1d	1d	1d	1d	1d	1d	1d	1d	1d	TP
P9	4	1g	1g	1g	1g	1g	1g	1g	1g	1g	1g	SLEEP
P10	D4-a	1p	1p	1p	1p	1p	1p	1p	1p	1p	1p	DAILY
P11	D4-b	1e	1e	1e	1e	1e	1e	1e	1e	1e	1e	(L)
P12	D4-c	1n	1n	1n	1n	1n	1n	1n	1n	1n	1n	(R)
P13	3	1r	1r	1r	1r	1r	1r	1r	1r	1r	1r	REC
P14	D3-a	1c	1c	1c	1c	1c	1c	1c	1c	1c	1c	ST
P15	D3-b	2a	2a	2a	2a	2a	2a	2a	2a	2a	2a	
P16	D3-c	2b	2b	2b	2b	2b	2b	2b	2b	2b	2b	
P17	2	2k	2k	2k	2k	2k	2k	2k	2k	2k	2k	
P18	D2-a	2j	2j	2j	2j	2j	2j	2j	2j	2j	2j	
P19	D2-b	2h	2h	2h	2h	2h	2h	2h	2h	2h	2h	
P20	D2-c	2f	2f	2f	2f	2f	2f	2f	2f	2f	2f	
P21	1	2m	2m	2m	2m	2m	2m	2m	2m	2m	2m	MEMORY
P22	D1-a	2d	2d	2d	2d	2d	2d	2d	2d	2d	2d	
P23	D1-b	2g	2g	2g	2g	2g	2g	2g	2g	2g	2g	(II)
P24	D1-c	2p	2p	2p	2p	2p	2p	2p	2p	2p	2p	kHz
P25		2e	2e	2e	2e	2e	2e	2e	2e	2e	2e	MHz
P26		2n	2n	2n	2n	2n	2n	2n	2n	2n	2n	
P27		2r	2r	2r	2r	2r	2r	2r	2r	2r	2r	MP3
P28		2c	2c	2c	2c	2c	2c	2c	2c	2c	2c	X-BASS
P29									Dot1	Col1		
P30									Dot2	Col2		

OUTER DIMENSIONS

PIN CONNECTION

PIN NO.	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
CONNECTION	F2	F2	NP	NP	P30	P29	P28	P27	P26	P25	P24	P23	P22	P21	P20	P19	P18	P17	P16	P15	P14	P13	P12	P11	P10	P9

PIN NO.	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1
CONNECTION	P8	P7	P6	P5	P4	P3	P2	P1	12G	11G	10G	9G	8G	7G	6G	5G	4G	3G	NX	NX	2G	1G	NP	F1	F1

SHARP PARTS GUIDE

No. XXXXXXXXXXXX

MINI COMPONENT SYSTEM

MODEL CD-MPS700

CD-MPS700 Mini Component System consisting of CD-MPS700 (main unit) and CP-MPS700 (speaker system).

CONTENTS

[1] INTEGRATED CIRCUITS

[2] TRANSISTORS

[3] DIODES

[4] FILTERS

[5] TRANSFORMERS

[6] COILS

[7] VIBRATORS

[8] CAPACITORS

[9] RESISTORS

[10] OTHER CIRCUITRY PARTS

[11] CD MECHANISM PARTS

[12] CHANGER MECHANISM PARTS

[13] CABINET PARTS

[14] SPEAKER BOX PARTS

[15] PACKING PARTS

[16] P.W.B. ASSEMBLY (Not Replacement Item)

[17] OTHER SERVICE PART

■ INDEX

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

This document has been published to be used for after sales service only.
The contents are subject to change without notice.

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[1] INTEGRATED CIRCUITS					
IC1	VHILC78648E-1	AW			CD Servo,LC78648E
IC2	VHILA6261//-1	AN			Focus/Tracking/Spin/Sled Driver,LA6261
IC3	VHILC78684E-1	AZ			MP3 Decoder,LC78684E
IC4	VHILV1625635T	AT			D-RAM,LV1625635T
IC5	RH-IXA006AWZZ	AT			Microcomputer,IXA006AW
IC6	VHISI3033LUS1	AG			Voltage Regulator,SI3033LUS1
IC101	VHIAN7345K/-1	AM			Playback and Record/Playback Amp.,AN7345K
IC301	VHITA7358AP-1	AG			FM Front End,TA7358AP
IC302	VHILC72131/-1	AP			PLL (Tuner),LC72131
IC303	VHILA1832S/-1	AN			FM IF Det./FM Mpx./AM IF,LA1832S
IC601	VHILC75341/-1	AM			Audio Processor,LC75341
IC701	RH-IXA022AWZZ	AX			System Microcomputer,IXA022AW
IC851	VHIAN80T53/-1	AL			Multi Regulator,AN80T53
IC854	VHIAN78L05/-1	AE			Constant Voltage Regulator,AN78L05
IC901	VHISTK41242-1	BB			Power Amp.,STK41242
[2] TRANSISTORS					
Q1	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q2	VSKTA1271Y/-1	AC			Silicon,PNP,KTA1271 Y
Q3	VS2SD601AR/-1	AC			Silicon,NPN,2SD601 AR
Q4	VS2SD601AR/-1	AC			Silicon,NPN,2SD601 AR
Q5	VS2SD601AR/-1	AC			Silicon,NPN,2SD601 AR
Q6	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q101	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q102	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q103	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q104	VSKTC3200GR-1	AC			Silicon,NPN,KTC3200 GR
Q105	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q106	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q107	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q108	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q109	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q110	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q111	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q112	VSKTA1504Y/-1	AB			Silicon,PNP,KTA1504 Y
Q113	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q114	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q302	VSKTC3194Y/-1	AD			Silicon,NPN,KTC3194 Y
Q360	VSKTA1266GR-1	AB			Silicon,PNP,KTA1266 GR
Q601	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q602	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q603	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q604	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q706	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q707	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q708	VSKTA1273Y/-1	AE			Silicon,PNP,KTA1273 Y
Q709	VSKRC102S//-1	AB			Digital,NPN,KRC102 S
Q710	VSKRC102S//-1	AB			Digital,NPN,KRC102 S
Q711	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
Q712	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q713	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q714	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q715	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
Q716	VSKRC104S//-1	AC			Digital,NPN,KRC104 S
Q717	VSKRA107S//-1	AB			Digital,NPN,KRA107 S
Q801	VSKTA1274Y/-1	AE			Silicon,PNP,KTA1274 Y
Q841	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q885	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q886	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q901	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q902	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q903	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q904	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q905	VSKTC3199GR-1	AB			Silicon,NPN,KTC3199 GR
Q906	VSKTC3203Y/-1	AC			Silicon,NPN,KTC3203 Y
Q908	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
Q909	VSKTC3875GR-1	AB			Silicon,NPN,KTC3875 GR
[3] DIODES					
D1	VHDKDS184//-1	AB			Silicon,KDS184
D305	VHD1N4148H/-1	AA			Silicon,1N4148H
D690	VHD1N4148H/-1	AA			Silicon,1N4148H
D691	VHD1N4148H/-1	AA			Silicon,1N4148H
D709	VHD1N4148H/-1	AA			Silicon,1N4148H
D710	VHD1N4148H/-1	AA			Silicon,1N4148H
D711	VHD1N4148H/-1	AA			Silicon,1N4148H
D712	VHD1N4148H/-1	AA			Silicon,1N4148H
D713	VHD1N4148H/-1	AA			Silicon,1N4148H
D714	VHD1N4148H/-1	AA			Silicon,1N4148H
D715	VHD1N4148H/-1	AA			Silicon,1N4148H
D716	VHD1N4148H/-1	AA			Silicon,1N4148H
D801	VHDD10XB60F-1	AL			Silicon,D10XB60F
D802	VHDD10XB60F-1	AL			Silicon,D10XB60F
D803	VHD1N4004S/-1	AB			Silicon,1N4004S
D804	VHD1N4004S/-1	AB			Silicon,1N4004S

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[3] DIODES					
D805	VHD1N4004S/-1	AB			Silicon,1N4004S
D806	VHD1N4004S/-1	AB			Silicon,1N4004S
D842	VHD1N4004S/-1	AB			Silicon,1N4004S
D843	VHD1N4004S/-1	AB			Silicon,1N4004S
D844	VHD1N4004S/-1	AB			Silicon,1N4004S
D845	VHD1N4004S/-1	AB			Silicon,1N4004S
⚠ D846	VHD1N4148H/-1	AA			Silicon,1N4148H
D853	VHD1N4004S/-1	AB			Silicon,1N4004S
D856	VHD1N4148H/-1	AA			Silicon,1N4148H
D860	VHD1N4148H/-1	AA			Silicon,1N4148H
D861	VHD1N4148H/-1	AA			Silicon,1N4148H
D862	VHD1N4148H/-1	AA			Silicon,1N4148H
D863	VHD1N4148H/-1	AA			Silicon,1N4148H
D885	VHD1N4148H/-1	AA			Silicon,1N4148H
D905	VHD1N4148H/-1	AA			Silicon,1N4148H
D906	VHD1N4148H/-1	AA			Silicon,1N4148H
D907	VHD1N4148H/-1	AA			Silicon,1N4148H
D909	VHD1N4004S/-1	AB			Silicon,1N4004S
D910	VHD1N4004S/-1	AB			Silicon,1N4004S
D911	VHD1N4148H/-1	AA			Silicon,1N4148H
D912	VHD1N4148H/-1	AA			Silicon,1N4148H
D913	VHD1N4148H/-1	AA			Silicon,1N4148H
D914	VHD1N4148H/-1	AA			Silicon,1N4148H
LED701	VHP304VT2H3-1	AC			LED,Red,304VT2H3
LED703	VHPSDPB50CD-1	AK			LED,Blue,SDPB50CD
ZD1	VHEMA8033//-1	AC			Zener,3.3V,MA8033
ZD351	VHEDZ5R1BSB-1	AC			Zener,5.1V,DZ5.1BSB
ZD801	VHEDZ6R2BSA-1	AB			Zener,6.2V,DZ6.2BSA
ZD802	VHEDZ7R5BSB-1	AB			Zener,7.5V,DZ7.5BSB
ZD803	VHEDZ300BSB-1	AB			Zener,30V,DZ30BSB
ZD805	VHEDZ120BSB-1	AB			Zener,12V,DZ12BSB
ZD902	VHEDZ120BSB-1	AB			Zener,12V,DZ12BSB
ZD903	VHEDZ120BSB-1	AB			Zener,12V,DZ12BSB
[4] FILTERS					
BF301	RFILR0008AWZZ	AE			Band Pass Filter
CF303	RFILF0124AFZZ	AD			FM IF,10.7 MHz
CF351	RFILF0003AWZZ	AK			FM IF
CF352	RFILA0009AWZZ	AE			AM IF
[5] TRANSFORMERS					
⚠ PT801	RTRNP0522AWZZ	BF			Power,Main
⚠ PT841	RTRNP0483AWZZ	AL			Power,Sub
T301	RCILB0065AWZZ	AC			FM OSC.
T302	RCILI0017AWZZ	AB			FM IF
T303	RCILA0052AWZZ	AE			AM Antenna
T306	RCILB0067AWZZ	AD			AM OSC.
T351	RCILI0019AWZZ	AD			AM IF
[6] COILS					
L1	RCILC0011AWZZ	AD			0.82 μ H
L2	RCILC0012AWZZ	AD			2.2 μ H
L3	RCILC0012AWZZ	AD			2.2 μ H
L103	VP-MK331K0000	AB			330 μ H,Choke
L312	RCILR0056AWZZ	AB			FM RF
L351	VP-DH101K0000	AB			100 μ H,Choke
L352	VP-DH101K0000	AB			100 μ H,Choke
L701	VP-DH101K0000	AB			100 μ H,Choke
L901	RCILZ0024AWZZ	AC			3 μ H,Choke
L902	RCILZ0024AWZZ	AC			3 μ H,Choke
L920	RCILZ0137AFZZ	AA			0.29 μ H
L921	RCILZ0137AFZZ	AA			0.29 μ H
[7] VIBRATORS					
X351	92LCRSTL1425A	AF			Crystal,456 kHz
X352	RCRSP0019AWZZ	AF			Crystal,4.5 MHz
XL1	RC-RM0047AWZZ				Crystal,16.9344 MHz
XL2	RCRM-0043AWZZ	AB			Ceramic,4.19 MHz
XL701	RCRSP0003AWZZ	AH			Crystal,4.19 MHz
[8] CAPACITORS					
C1	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C2	VCKYCY1CB103K	AA			0.01 μ F,16V
C3	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C4	VCKYCY1HB102K	AA			0.001 μ F,50V
C5	VCKYCY1CB473K	AA			0.047 μ F,16V
C6	VCKYCY1CB103K	AA			0.01 μ F,16V
C8	VCKYCY1HB272K	AA			0.0027 μ F,50V
C9	RC-EZ0004AWZZ	AD			3.3 μ F,16V,Electrolytic
C10	VCKYCY1CB104K	AB			0.1 μ F,16V
C11	VCKYCY1CB563K	AB			0.056 μ F,16V
C12	VCCCCY1HH101J	AA			100 pF (CH),50V
C13	VCKYCY1EF223Z	AB			0.022 μ F,25V
C14	VCEAZA1AW476M	AB			47 μ F,10V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C17	VCKYCY1EF223Z	AB			0.022 μ F,25V
C18	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C20	VCEAZA0JW337M	AC			330 μ F,6.3V,Electrolytic
C21	VCEAZA1EW106M	AB			10 μ F,25V,Electrolytic
C22	VCEAZA1EW106M	AB			10 μ F,25V,Electrolytic
C23	VCQYKA1HM152K	AB			0.0015 μ F,50V,Mylar
C24	VCQYKA1HM152K	AB			0.0015 μ F,50V,Mylar
C25	VCKYCY1CB103K	AA			0.01 μ F,16V
C26	VCKYCY1EF223Z	AB			0.022 μ F,25V
C27	VCCCCY1HH101J	AA			100 pF (CH),50V
C28	VCCCCY1HH101J	AA			100 pF (CH),50V
C29	VCKYCY1HB102K	AA			0.001 μ F,50V
C30	VCCCCY1HH101J	AA			100 pF (CH),50V
C31	VCKYCY1EF223Z	AB			0.022 μ F,25V
C32	VCCCCY1HH101J	AA			100 pF (CH),50V
C33	VCKYCY1CB563K	AB			0.056 μ F,16V
C34	VCKYCY1CB103K	AA			0.01 μ F,16V
C35	VCKYCY1CB473K	AA			0.047 μ F,16V
C36	VCKYCY1CF224Z	AB			0.22 μ F,16V
C37	VCKYCY1CB104K	AB			0.1 μ F,16V
C38	VCKYCY1CB103K	AA			0.01 μ F,16V
C39	VCKYCY1CB104K	AB			0.1 μ F,16V
C41	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C42	VCCCCY1HH330J	AA			33 pF (CH),50V
C44	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C46	VCKYCY1CB103K	AA			0.01 μ F,16V
C47	VCKYCY1CB103K	AA			0.01 μ F,16V
C48	VCKYCY1EF223Z	AB			0.022 μ F,25V
C50	VCEAZA1AW476M	AB			47 μ F,10V,Electrolytic
C51	VCKYCY1CB103K	AA			0.01 μ F,16V
C52	VCKYCY1CB103K	AA			0.01 μ F,16V
C53	VCKYCY1CB103K	AA			0.01 μ F,16V
C56	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C57	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C58	VCEAZA1AW476M	AB			47 μ F,10V,Electrolytic
C59	VCKYCY1CB104K	AB			0.1 μ F,16V
C60	VCKYCY1HB102K	AA			0.001 μ F,50V
C61	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C62	VCKYCY1CB103K	AA			0.01 μ F,16V
C63	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C64	VCCCCY1HH330J	AA			33 pF (CH),50V
C65	VCEAZA1AW476M	AB			47 μ F,10V,Electrolytic
C66	VCKYCY1CB103K	AA			0.01 μ F,16V
C68	VCKYCY1CB103K	AA			0.01 μ F,16V
C69	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C70	VCKYCY1CB103K	AA			0.01 μ F,16V
C71	VCKYCY1CB104K	AB			0.1 μ F,16V
C72	VCCCCY1HH101J	AA			100 pF (CH),50V
C73	VCCCCY1HH101J	AA			100 pF (CH),50V
C74	VCKYCY1HB102K	AA			0.001 μ F,50V
C75	VCKYCY1HB102K	AA			0.001 μ F,50V
C76	VCKYCY1CB103K	AA			0.01 μ F,16V
C82	VCKYCY1HB332K	AA			0.0033 μ F,50V
C83	VCKYCY1HB102K	AA			0.001 μ F,50V
C84	VCKYCY1EF223Z	AB			0.022 μ F,25V
C85	VCTYBT1EF223Z	AA			0.022 μ F,25V
C86	VCTYBT1EF223Z	AA			0.022 μ F,25V
C87	VCKYCY1CB104K	AB			0.1 μ F,16V
C101	VCKYCY1HB561K	AA			560 pF,50V
C102	VCKYCY1HB561K	AA			560 pF,50V
C103	VCKYBT1HB181K	AA			180 pF,50V
C104	VCCCCY1HH181J	AA			180 pF (CH),50V
C105	VCKYCY1HB152K	AA			0.0015 μ F,50V
C106	VCKYCY1HB152K	AA			0.0015 μ F,50V
C107	VCKYCY1HB331K	AA			330 pF,50V
C108	VCKYCY1HB331K	AA			330 pF,50V
C109	VCKYCY1HB331K	AA			330 pF,50V
C110	VCKYCY1HB331K	AA			330 pF,50V
C111	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C112	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C113	VCTYPA1EX393K	AA			0.039 μ F,25V
C114	VCTYPA1EX393K	AA			0.039 μ F,25V
C115	VCKYCY1HB561K	AA			560 pF,50V
C116	VCKYCY1HB561K	AA			560 pF,50V
C117	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C118	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C119	VCKYCY1HB222K	AA			0.0022 μ F,50V
C120	VCKYCY1HB222K	AA			0.0022 μ F,50V
C121	VCKYCY1EF223Z	AB			0.022 μ F,25V
C123	VCKYCY1HB271K	AA			270 pF,50V
C124	VCKYCY1HB271K	AA			270 pF,50V
C125	VCEAZA1HW226M	AB			22 μ F,50V,Electrolytic
C126	VCEAZA1HW226M	AB			22 μ F,50V,Electrolytic
C127	VCTYPA1CX223K	AA			0.022 μ F,16V
C128	VCTYPA1CX223K	AA			0.022 μ F,16V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C129	VCKYCY1HB332K	AA			0.0033 μ F,50V
C130	VCKYCY1HB332K	AA			0.0033 μ F,50V
C131	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C132	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C133	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C134	VCEAZA1AW227M	AC			220 μ F,10V,Electrolytic
C135	VCKYCY1EF223Z	AB			0.022 μ F,25V
C137	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar
C138	VCQPKA2AA822J	AA			0.0082 μ F,100V,Polypropylene
C139	VCQYKA1HM393K	AB			0.039 μ F,50V,Mylar
C140	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C141	VCEAZA1CW107M	AC			100 μ F,16V,Electrolytic
C143	VCEAZA1HW335M	AB			3.3 μ F,50V,Electrolytic
C150	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C302	VCKYCY1HB102K	AA			0.001 μ F,50V
C303	VCCCCY1HH100D	AA			10 pF (CH),50V
C304	VCKYCY1HB103K	AA			0.01 μ F,50V
C305	VCCCCY1HH4R7C	AA			4.7 pF (CH),50V
C306	VCKYCY1EF223Z	AB			0.022 μ F,25V
C307	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C308	VCCCCY1HH4R7C	AA			4.7 pF (CH),50V
C309	VCKYCY1HB102K	AA			0.001 μ F,50V
C310	VCCCCY1HH150J	AA			15 pF (CH),50V
C311	VCCCCY1HH180J	AA			18 pF (CH),50V
C312	VCKYCY1EF223Z	AB			0.022 μ F,25V
C313	VCCCCY1HH220J	AA			22 pF (CH),50V
C315	VCKYCY1HB103K	AA			0.01 μ F,50V
C316	VCKYCY1EF223Z	AB			0.022 μ F,25V
C317	VCKYCY1HB102K	AA			0.001 μ F,50V
C318	VCKYBT1HB101K	AA			100 pF,50V
C320	VCKYBT1HB102K	AA			0.001 μ F,50V
C323	VCKYCY1EF223Z	AB			0.022 μ F,25V
C324	VCCCCY1HH4R7C	AA			4.7 pF (CH),50V
C330	VCCCCY1HH150J	AA			15 pF (CH),50V
C331	VCKZPA1HF473Z	AA			0.047 μ F,50V
C332	VCKYCY1EF223Z	AB			0.022 μ F,25V
C334	VCCCCY1HH220J	AA			22 pF (CH),50V
C335	VCKYCY1HB561K	AA			560 pF,50V
C338	VCKYCY1HB102K	AA			0.001 μ F,50V
C342	VCKYCY1EF223Z	AB			0.022 μ F,25V
C347	VCKYCY1EF223Z	AB			0.022 μ F,25V
C350	VCKYCY1EF223Z	AB			0.022 μ F,25V
C351	VCKYCY1EF223Z	AB			0.022 μ F,25V
C352	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C353	VCKYCY1EF223Z	AB			0.022 μ F,25V
C354	VCKYCY1EF223Z	AB			0.022 μ F,25V
C355	VCCCCY1HH220J	AA			22 pF (CH),50V
C356	VCKYCY1HB102K	AA			0.001 μ F,50V
C357	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C358	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C361	VCKYCY1EF223Z	AB			0.022 μ F,25V
C362	VCEAZA1HW362M				0.0036 μ F,50V,Electrolytic
C363	VCKYCY1EF223Z	AB			0.022 μ F,25V
C364	VCEAZA1HW225M	AB			2.2 μ F,50V,Electrolytic
C365	VCTYPA1CX223K	AA			0.022 μ F,16V
C366	VCKYCY1HB102K	AA			0.001 μ F,50V
C367	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C368	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C369	VCCCCY1HH270J	AA			27 pF (CH),50V
C370	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C371	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C372	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C373	VCTYPA1CX153K	AA			0.015 μ F,16V
C374	VCTYPA1CX153K	AA			0.015 μ F,16V
C376	VCCCCY1HH101J	AA			100 pF (CH),50V
C377	VCCCCY1HH101J	AA			100 pF (CH),50V
C378	VCCCCY1HH101J	AA			100 pF (CH),50V
C379	VCCCCY1HH101J	AA			100 pF (CH),50V
C380	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C381	VCCCCY1HH120J	AA			12 pF (CH),50V
C382	VCCCCY1HH150J	AA			15 pF (CH),50V
C383	VCCSBT1HL470J	AA			47 pF,50V
C384	VCKYCY1HB102K	AA			0.001 μ F,50V
C385	VCKYCY1HB103K	AA			0.01 μ F,50V
C386	VCKYCY1HB331K	AA			330 pF,50V
C387	VCKYCY1EF223Z	AB			0.022 μ F,25V
C388	VCKYCY1HB102K	AA			0.001 μ F,50V
C389	VCKYBT1HB102K	AA			0.001 μ F,50V
C391	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C392	VCKYCY1HB102K	AA			0.001 μ F,50V
C393	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C394	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C395	VCKYCY1EF223Z	AB			0.022 μ F,25V
C396	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C397	VCKYCY1EF223Z	AB			0.022 μ F,25V

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C398	VCEAZA1AW107M	AB			100 μ F,10V,Electrolytic
C399	VCKYCY1EF223Z	AB			0.022 μ F,25V
C601	VCEAZA1CW227M	AC			220 μ F,16V,Electrolytic
C602	VCKYPA1HF223Z	AB			0.022 μ F,50V
C603	VCEAZA1AW227M	AC			220 μ F,10V,Electrolytic
C605	VCFYFA1HA104J	AC			0.1 μ F,50V,Thin Film
C606	VCFYFA1HA104J	AC			0.1 μ F,50V,Thin Film
C607	VCFYFA1HA823J	AB			0.082 μ F,50V
C608	VCFYFA1HA823J	AB			0.082 μ F,50V
C609	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C610	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C611	VCKYCY1HB222K	AA			0.0022 μ F,50V
C612	VCKYCY1HB222K	AA			0.0022 μ F,50V
C613	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C614	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C615	VCEAZA1HW475M	AB			4.7 μ F,50V,Electrolytic
C616	VCEAZA1HW475M	AB			4.7 μ F,50V,Electrolytic
C617	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C618	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C619	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C620	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C621	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C622	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C623	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C624	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C625	VCKYCY1HB222K	AA			0.0022 μ F,50V
C626	VCKYCY1HB222K	AA			0.0022 μ F,50V
C631	VCKYBT1HB103K	AB			0.01 μ F,50V
C639	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C640	VCEAZA1HW226M	AB			22 μ F,50V,Electrolytic
C651	VCKYCY1HB221K	AA			220 pF,50V
C652	VCKYCY1HB221K	AA			220 pF,50V
C653	VCKYCY1HB221K	AA			220 pF,50V
C690	VCKYPA1HB391K	AA			390 pF,50V
C691	VCKYPA1HB391K	AA			390 pF,50V
C693	VCKYCY1HB103K	AA			0.01 μ F,50V
C694	VCKYPA1HB102K	AA			0.001 μ F,50V
C695	VCKYPA1HB102K	AA			0.001 μ F,50V
C696	VCKYPA1HB103K	AA			0.01 μ F,50V
C701	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C702	VCEAZA1AW227M	AC			220 μ F,10V,Electrolytic
C704	VCCCCY1HH150J	AA			15 pF (CH),50V
C705	VCCCCY1HH180J	AA			18 pF (CH),50V
C707	VCEAZA1HW105M	AB			1 μ F,50V,Electrolytic
C709	VCKYCY1HB473K	AB			0.047 μ F,50V
C710	VCKYCY1HB473K	AB			0.047 μ F,50V
C714	VCEAZA1HW335M	AB			3.3 μ F,50V,Electrolytic
C715	VCKYCY1HB103K	AA			0.01 μ F,50V
C717	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C720	VCKYCY1EF223Z	AB			0.022 μ F,25V
C721	VCKYCY1EF223Z	AB			0.022 μ F,25V
C722	VCKYCY1HF103Z	AB			0.01 μ F,50V
C723	VCKYCY1EF473Z	AB			0.047 μ F,25V
C727	VCKYCY1EF473Z	AB			0.047 μ F,25V
C730	VCKYCY1EF473Z	AB			0.047 μ F,25V
C732	VCKYCY1EF473Z	AB			0.047 μ F,25V
C801	VCEAZA1VW107M	AC			100 μ F,35V,Electrolytic
C802	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C803	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C804	VCEAZA1JW227M	AD			220 μ F,63V,Electrolytic
C805	VCEAZA2AW226M	AC			22 μ F,100V,Electrolytic
C806	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C807	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C808	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C809	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C810	VCFYDA2AA224J	AD			0.22 μ F,100V,Thin Film
C811	VCFYDA2AA224J	AD			0.22 μ F,100V,Thin Film
C841	VCEAZA0JW108M	AC			1000 μ F,6.3V,Electrolytic
C842	VCEAZA1EW477M	AD			470 μ F,25V,Electrolytic
C843	VCQYKA1HM473K	AB			0.047 μ F,50V,Mylar
⚠ C844	RC-KZ002LAWZZ	AC			0.0047 μ F,250V,Ceramic
C850	RC-EZ0106AWZZ	AH			4700 μ F,35V,Electrolytic
C854	VCEAZA1CW227M	AC			220 μ F,16V,Electrolytic
C855	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C856	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C859	VCEAZA1HW226M	AB			22 μ F,50V,Electrolytic
C861	VCKYPA1HF223Z	AB			0.022 μ F,50V
C864	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C865	VCEAZA1EW226M	AB			22 μ F,25V,Electrolytic
C885	VCKYCY1HB104K	AD			0.1 μ F,50V
C901	VCEAZA1HW475M	AB			4.7 μ F,50V,Electrolytic
C902	VCEAZA1HW475M	AB			4.7 μ F,50V,Electrolytic
C903	VCKYCY1HB102K	AA			0.001 μ F,50V
C904	VCKYCY1HB102K	AA			0.001 μ F,50V
C905	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[8] CAPACITORS					
C906	VCEAZA1HW476M	AB			47 μ F,50V,Electrolytic
C907	VCCCCY1HH101J	AA			100 pF (CH),50V
C908	VCCCCY1HH3R0C	AA			3 pF (CH),50V
C909	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C910	VCCCCY1HH3R0C	AA			3 pF (CH),50V
C911	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C912	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C913	VCCCCY1HH101J	AA			100 pF (CH),50V
C914	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C915	VCEAZA2AW107M	AD			100 μ F,100V,Electrolytic
C916	VCEAZA1VW107M	AC			100 μ F,35V,Electrolytic
C917	VCKYCY1HB103K	AA			0.01 μ F,50V
C918	VCEAZA1VW107M	AC			100 μ F,35V,Electrolytic
C919	VCKYCY1HB103K	AA			0.01 μ F,50V
C920	RC-EZ0029AWZZ	AN			3300 μ F,71V,Electrolytic
C921	RC-EZ0106AWZZ	AH			4700 μ F,35V,Electrolytic
C922	RC-EZ0106AWZZ	AH			4700 μ F,35V,Electrolytic
C923	RC-EZ0029AWZZ	AN			3300 μ F,71V,Electrolytic
C925	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C928	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C929	VCQYKA1HM104K	AB			0.1 μ F,50V,Mylar
C931	VCEAZA1HW106M	AB			10 μ F,50V,Electrolytic
C944	VCEAZA1EW476M	AB			47 μ F,25V,Electrolytic
C946	VCEAZA1HW104M	AB			0.1 μ F,50V,Electrolytic
C952	VCKYCY1HB103K	AA			0.01 μ F,50V
[9] RESISTORS					
	VRS-CY1JB000J	AA			0 ohm,Jumper,0.8x1.55mm,Green
R3	VRS-CY1JB333J	AA			33 kohms,1/16W
R6	VRS-CY1JB333J	AA			33 kohms,1/16W
R7	VRS-CY1JB470J	AA			47 ohms,1/16W
R8	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R9	VRS-CY1JB100J	AA			10 ohm,1/16W
R10	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R12	VRS-CY1JB331J	AA			330 ohms,1/16W
R13	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R14	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R15	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R16	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R17	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R18	VRS-CY1JB102J	AA			1 kohm,1/16W
R19	VRS-CY1JB102J	AA			1 kohm,1/16W
R20	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R21	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R22	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R23	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R24	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R25	VRS-CY1JB103J	AA			10 kohm,1/16W
R26	VRS-CY1JB103J	AA			10 kohm,1/16W
R27	VRS-CY1JB101J	AA			100 ohm,1/16W
R28	VRS-CY1JB221J	AA			220 ohms,1/16W
R29	VRS-CY1JB151J	AA			150 ohms,1/16W
R30	VRS-CY1JB391J	AA			390 ohms,1/16W
R31	VRS-CY1JB391J	AA			390 ohms,1/16W
R32	VRS-CY1JB391J	AA			390 ohms,1/16W
R33	VRS-CY1JB391J	AA			390 ohms,1/16W
R34	VRS-CY1JB391J	AA			390 ohms,1/16W
R35	VRS-CY1JB391J	AA			390 ohms,1/16W
R36	VRS-CY1JB391J	AA			390 ohms,1/16W
R37	VRS-CY1JB391J	AA			390 ohms,1/16W
R38	VRS-CY1JB563J	AA			56 kohms,1/16W
R39	VRS-CY1JB681J	AA			680 ohms,1/16W
R40	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R41	VRS-CY1JB102J	AA			1 kohm,1/16W
R42	VRS-CY1JB102J	AA			1 kohm,1/16W
R43	VRS-CY1JB102J	AA			1 kohm,1/16W
R44	VRS-CY1JB102J	AA			1 kohm,1/16W
R45	VRS-CY1JB102J	AA			1 kohm,1/16W
R46	VRS-CY1JB102J	AA			1 kohm,1/16W
R47	VRS-CY1JB102J	AA			1 kohm,1/16W
R48	VRS-CY1JB102J	AA			1 kohm,1/16W
R49	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R50	VRS-CY1JB681J	AA			680 ohms,1/16W
R52	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R54	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R55	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R56	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R57	VRS-CY1JB103J	AA			10 kohm,1/16W
R58	VRS-CY1JB103J	AA			10 kohm,1/16W
R59	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R60	VRS-CY1JB102J	AA			1 kohm,1/16W
R61	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R62	VRS-CY1JB102J	AA			1 kohm,1/16W
R63	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R64	VRS-CY1JB102J	AA			1 kohm,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R65	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R66	VRS-CY1JB102J	AA			1 kohm,1/16W
R67	VRS-CY1JB102J	AA			1 kohm,1/16W
R68	VRS-CY1JB104J	AA			100 kohm,1/16W
R69	VRS-CY1JB102J	AA			1 kohm,1/16W
R70	VRS-CY1JB102J	AA			1 kohm,1/16W
R71	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R72	VRS-CY1JB102J	AA			1 kohm,1/16W
R73	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R74	VRS-CY1JB102J	AA			1 kohm,1/16W
R75	VRS-CY1JB221J	AA			220 ohms,1/16W
R76	VRS-CY1JB102J	AA			1 kohm,1/16W
R77	VRS-CY1JB102J	AA			1 kohm,1/16W
R78	VRS-CY1JB102J	AA			1 kohm,1/16W
R79	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R80	VRS-CY1JB820J	AA			82 ohms,1/16W
R81	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R82	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R83	VRS-CY1JB151J	AA			150 ohms,1/16W
R84	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R85	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R86	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R87	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R88	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R89	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R91	VRS-CY1JB103J	AA			10 kohm,1/16W
R92	VRS-CY1JB103J	AA			10 kohm,1/16W
R93	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R94	VRD-ST2EE1R0J	AA			1 ohm,1/4W
R95	VRD-ST2EE1R0J	AA			1 ohm,1/4W
R96	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R97	VRS-CY1JB333J	AA			33 kohms,1/16W
R98	VRS-CY1JB271J	AA			270 ohms,1/16W
R99	VRS-CY1JB225J	AA			2.2 Mohms,1/16W
R101	VRS-CY1JB102J	AA			1 kohm,1/16W
R102	VRS-CY1JB102J	AA			1 kohm,1/16W
R103	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R104	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R105	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R106	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R107	VRS-CY1JB473J	AA			47 kohms,1/16W
R108	VRS-CY1JB473J	AA			47 kohms,1/16W
R109	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R110	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R111	VRD-ST2CD153J	AA			15 kohms,1/6W
R112	VRS-CY1JB153J	AA			15 kohms,1/16W
R113	VRD-ST2CD102J	AA			1 kohm,1/6W
R114	VRD-ST2CD102J	AA			1 kohm,1/6W
R115	VRD-ST2CD560J	AA			56 ohms,1/6W
R116	VRD-ST2CD560J	AA			56 ohms,1/6W
R117	VRS-CY1JB104J	AA			100 kohm,1/16W
R118	VRS-CY1JB104J	AA			100 kohm,1/16W
R119	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R120	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R121	VRS-CY1JB183J	AA			18 kohms,1/16W
R122	VRS-CY1JB183J	AA			18 kohms,1/16W
R123	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R124	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R126	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R127	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R128	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R129	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R130	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R131	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R132	VRS-CY1JB101J	AA			100 ohm,1/16W
R133	VRS-CY1JB101J	AA			100 ohm,1/16W
R134	VRS-CY1JB103J	AA			10 kohm,1/16W
R135	VRS-CY1JB103J	AA			10 kohm,1/16W
R136	VRS-CY1JB224J	AA			220 kohms,1/16W
R137	VRS-CY1JB224J	AA			220 kohms,1/16W
R138	VRS-CY1JB103J	AA			10 kohm,1/16W
R139	VRS-CY1JB103J	AA			10 kohm,1/16W
R140	VRS-CY1JB473J	AA			47 kohms,1/16W
R141	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R142	VRD-RT2HD820J	AA			82 ohms,1/2W
R143	VRS-CY1JB473J	AA			47 kohms,1/16W
R144	VRS-CY1JB223J	AA			22 kohms,1/16W
R145	VRD-ST2CD4R7J	AA			4.7 ohms,1/6W
R146	VRS-CY1JB103J	AA			10 kohm,1/16W
R147	VRS-CY1JB103J	AA			10 kohm,1/16W
R148	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R149	VRD-ST2EE151J	AA			150 ohms,1/4W
R150	VRS-CY1JB683J	AA			68 kohms,1/16W
R158	VRD-ST2EE221J	AA			220 ohms,1/4W
R302	VRS-CY1JB100J	AA			10 ohm,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R309	VRD-ST2CD103J	AA			10 kohm,1/6W
R311	VRS-CY1JB104J	AA			100 kohm,1/16W
R313	VRS-CY1JB333J	AA			33 kohms,1/16W
R314	VRD-ST2CD220J	AA			22 ohms,1/6W
R316	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R322	VRS-CY1JB681J	AA			680 ohms,1/16W
R323	VRS-CY1JB683J	AA			68 kohms,1/16W
R325	VRS-CY1JB473J	AA			47 kohms,1/16W
R336	VRS-CY1JB103J	AA			10 kohm,1/16W
R350	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R351	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R352	VRS-CY1JB102J	AA			1 kohm,1/16W
R353	VRS-CY1JB271J	AA			270 ohms,1/16W
R355	VRS-CY1JB332J	AA			3.3 kohms,1/16W
R356	VRS-CY1JB102J	AA			1 kohm,1/16W
R357	VRS-CY1JB474J	AA			470 kohms,1/16W
R358	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R359	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R360	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R365	VRS-CY1JB103J	AA			10 kohm,1/16W
R372	VRS-CY1JB102J	AA			1 kohm,1/16W
R373	VRS-CY1JB102J	AA			1 kohm,1/16W
R374	VRS-CY1JB102J	AA			1 kohm,1/16W
R375	VRD-ST2CD471J	AA			470 ohms,1/6W
R376	VRS-CY1JB102J	AA			1 kohm,1/16W
R377	VRS-CY1JB473J	AA			47 kohms,1/16W
R378	VRS-CY1JB102J	AA			1 kohm,1/16W
R379	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R380	VRS-CY1JB152J	AA			1.5 kohms,1/16W
R381	VRS-CY1JB103J	AA			10 kohm,1/16W
R382	VRD-ST2EE151J	AA			150 ohms,1/4W
R383	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R384	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R385	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R386	VRD-ST2CD223J	AA			22 kohms,1/6W
R387	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R388	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R391	VRD-ST2EE271J	AA			270 ohms,1/4W
R392	VRD-ST2EE271J	AA			270 ohms,1/4W
R393	VRD-ST2CD102J	AA			1 kohm,1/6W
R395	VRS-CY1JB473J	AA			47 kohms,1/16W
R573	VRD-ST2CD103J	AA			10 kohm,1/6W
R593	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R601	VRD-ST2CD102J	AA			1 kohm,1/6W
R602	VRD-ST2CD102J	AA			1 kohm,1/6W
R603	VRD-ST2CD102J	AA			1 kohm,1/6W
R604	VRS-CY1JB103J	AA			10 kohm,1/16W
R605	VRS-CY1JB103J	AA			10 kohm,1/16W
R606	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R607	VRS-CY1JB392J	AA			3.9 kohms,1/16W
R608	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R609	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R610	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R611	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R612	VRS-CY1JB391J	AA			390 ohms,1/16W
R613	VRS-CY1JB391J	AA			390 ohms,1/16W
R614	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R615	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R616	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R617	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R618	VRD-ST2CD331J	AA			330 ohms,1/6W
R619	VRS-CY1JB331J	AA			330 ohms,1/16W
R620	VRS-CY1JB223J	AA			22 kohms,1/16W
R621	VRS-CY1JB223J	AA			22 kohms,1/16W
R641	VRS-CY1JB103J	AA			10 kohm,1/16W
R642	VRD-ST2CD103J	AA			10 kohm,1/6W
R643	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R644	VRS-CY1JB682J	AA			6.8 kohms,1/16W
R690	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R691	VRD-ST2CD822J	AA			8.2 kohms,1/6W
R692	VRD-ST2CD333J	AA			33 kohms,1/6W
R693	VRD-ST2CD333J	AA			33 kohms,1/6W
R701	VRS-CY1JB102J	AA			1 kohm,1/16W
R702	VRS-CY1JB102J	AA			1 kohm,1/16W
R703	VRS-CY1JB102J	AA			1 kohm,1/16W
R704	VRD-ST2CD102J	AA			1 kohm,1/6W
R705	VRD-ST2CD102J	AA			1 kohm,1/6W
R706	VRS-CY1JB102J	AA			1 kohm,1/16W
R707	VRD-ST2CD102J	AA			1 kohm,1/6W
R708	VRD-ST2CD102J	AA			1 kohm,1/6W
R709	VRD-ST2CD102J	AA			1 kohm,1/6W
R710	VRD-ST2CD102J	AA			1 kohm,1/6W
R711	VRD-ST2CD102J	AA			1 kohm,1/6W
R712	VRD-ST2CD102J	AA			1 kohm,1/6W
R713	VRS-CY1JB102J	AA			1 kohm,1/16W

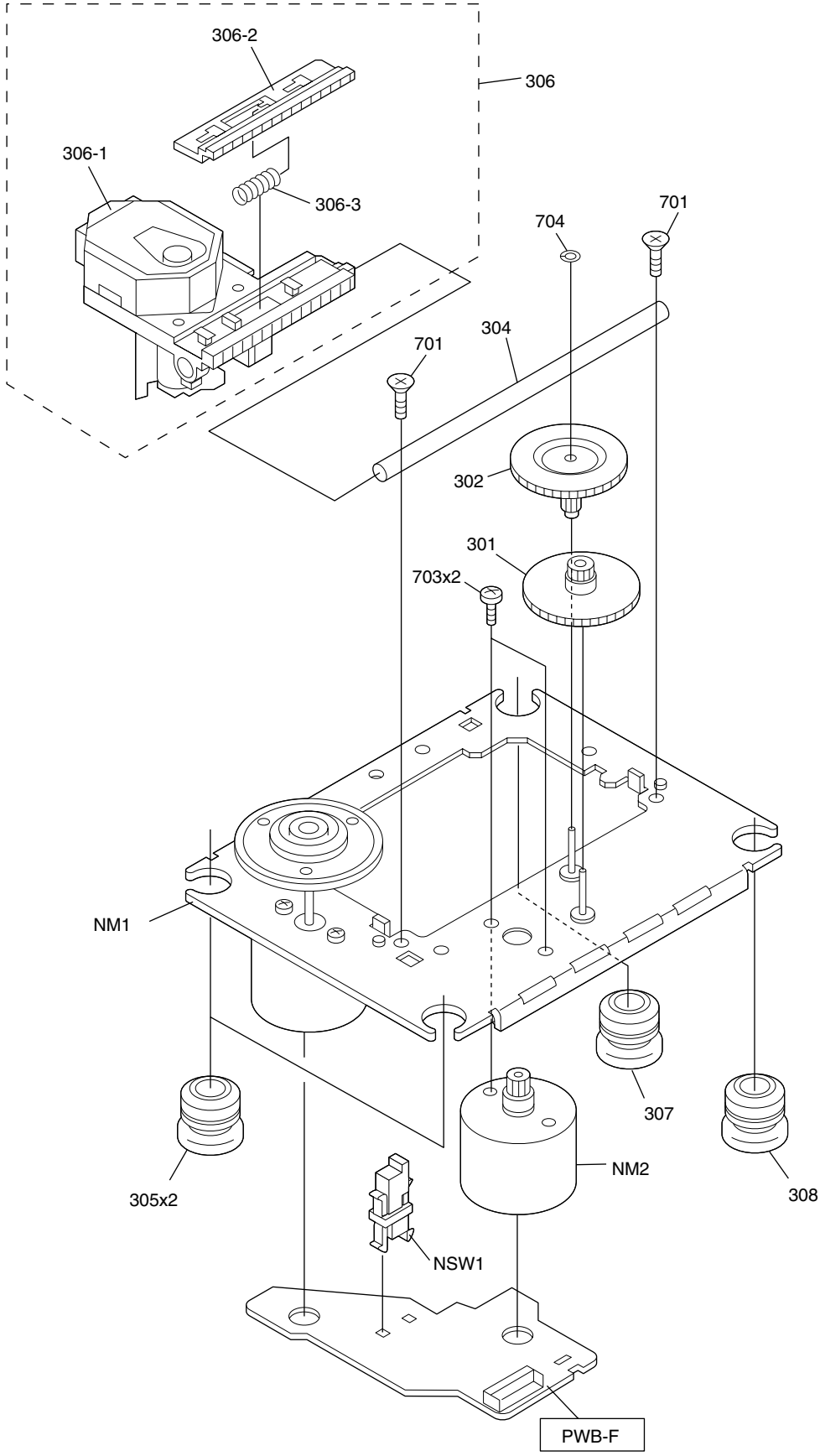
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R714	VRS-CY1JB102J	AA			1 kohm,1/16W
R715	VRS-CY1JB102J	AA			1 kohm,1/16W
R716	VRS-CY1JB102J	AA			1 kohm,1/16W
R717	VRD-ST2CD102J	AA			1 kohm,1/6W
R718	VRS-CY1JB102J	AA			1 kohm,1/16W
R719	VRS-CY1JB102J	AA			1 kohm,1/16W
R720	VRS-CY1JB102J	AA			1 kohm,1/16W
R721	VRS-CY1JB102J	AA			1 kohm,1/16W
R722	VRS-CY1JB102J	AA			1 kohm,1/16W
R723	VRD-ST2CD102J	AA			1 kohm,1/6W
R724	VRS-CY1JB102J	AA			1 kohm,1/16W
R725	VRD-ST2CD102J	AA			1 kohm,1/6W
R726	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R727	VRS-CY1JB681J	AA			680 ohms,1/16W
R728	VRS-CY1JB681J	AA			680 ohms,1/16W
R729	VRD-ST2CD561J	AA			560 ohms,1/6W
R730	VRD-ST2CD102J	AA			1 kohm,1/6W
R731	VRS-CY1JB103J	AA			10 kohm,1/16W
R732	VRS-CY1JB102J	AA			1 kohm,1/16W
R733	VRS-CY1JB102J	AA			1 kohm,1/16W
R736	VRS-CY1JB102J	AA			1 kohm,1/16W
R739	VRD-ST2CD102J	AA			1 kohm,1/6W
R740	VRD-ST2CD101J	AA			100 ohm,1/6W
R741	VRD-ST2CD102J	AA			1 kohm,1/6W
R746	VRD-ST2CD102J	AA			1 kohm,1/6W
R750	VRD-ST2CD473J	AA			47 kohms,1/6W
R751	VRD-ST2CD331J	AA			330 ohms,1/6W
R759	VRD-ST2CD562J	AA			5.6 kohms,1/6W
R761	VRS-CY1JB103J	AA			10 kohm,1/16W
R762	VRS-CY1JB103J	AA			10 kohm,1/16W
R763	VRS-CY1JB102J	AA			1 kohm,1/16W
R766	VRS-CY1JB103J	AA			10 kohm,1/16W
R767	VRS-CY1JB103J	AA			10 kohm,1/16W
R768	VRS-CY1JB103J	AA			10 kohm,1/16W
R769	VRD-ST2CD102J	AA			1 kohm,1/6W
R770	VRS-CY1JB562J	AA			5.6 kohms,1/16W
R771	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R773	VRS-CY1JB103J	AA			10 kohm,1/16W
R775	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R776	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R777	VRS-CY1JB103J	AA			10 kohm,1/16W
R778	VRS-CY1JB103J	AA			10 kohm,1/16W
R779	VRS-CY1JB103J	AA			10 kohm,1/16W
R780	VRD-ST2CD103J	AA			10 kohm,1/6W
R781	VRS-CY1JB473J	AA			47 kohms,1/16W
R782	VRD-ST2CD104J	AA			100 kohm,1/6W
R783	VRS-CY1JB101J	AA			100 ohm,1/16W
R784	VRS-CY1JB102J	AA			1 kohm,1/16W
R785	VRS-CY1JB272J	AA			2.7 kohms,1/16W
R786	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R787	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R788	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R789	VRD-ST2CD472J	AA			4.7 kohms,1/6W
R790	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R791	VRS-CY1JB472J	AA			4.7 kohms,1/16W
R794	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
R795	VRD-ST2EE1R5J	AA			1.5 ohms,1/4W
R801	VRD-ST2CD104J	AA			100 kohm,1/6W
R802	VRD-ST2CD473J	AA			47 kohms,1/6W
R803	VRD-ST2CD123J	AA			12 kohms,1/6W
R804	VRD-ST2EE470J	AA			47 ohms,1/4W
R805	VRD-ST2EE470J	AA			47 ohms,1/4W
R806	VRD-ST2CD473J	AA			47 kohms,1/6W
R808	VRD-RT2HD222J	AA			2.2 kohms,1/2W
R841	VRD-ST2CD224J	AA			220 kohms,1/6W
R842	VRD-ST2CD102J	AA			1 kohm,1/6W
R843	VRD-ST2CD473J	AA			47 kohms,1/6W
R844	VRD-ST2EE820J	AA			82 ohms,1/4W
R853	VRD-ST2CD223J	AA			22 kohms,1/6W
R854	VRD-ST2CD332J	AA			3.3 kohms,1/6W
R857	VRD-ST2CD223J	AA			22 kohms,1/6W
R858	VRD-ST2CD221J	AA			220 ohms,1/6W
R859	VRD-ST2CD103J	AA			10 kohm,1/6W
R863	VRD-RT2HD3R3J	AA			3.3 ohms,1/2W
R864	VRD-ST2CD223J	AA			22 kohms,1/6W
R885	VRS-CY1JB821J	AA			820 ohms,1/16W
R886	VRS-CY1JB223J	AA			22 kohms,1/16W
R887	VRS-CY1JB223J	AA			22 kohms,1/16W
R888	VRD-ST2CD473J	AA			47 kohms,1/6W
R889	VRD-ST2CD473J	AA			47 kohms,1/6W
⚠ R890	RR-HZ0001AWZZ	AE			4.7 Mohms,1/2W
R891	VRD-ST2EE101J	AA			100 ohm,1/4W
R901	VRS-CY1JB563J	AA			56 kohms,1/16W
R902	VRS-CY1JB563J	AA			56 kohms,1/16W
R903	VRS-CY1JB102J	AA			1 kohm,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[9] RESISTORS					
R904	VRS-CY1JB102J	AA			1 kohm,1/16W
R905	VRS-CY1JB561J	AA			560 ohms,1/16W
R906	VRS-CY1JB561J	AA			560 ohms,1/16W
R907	VRS-CY1JB563J	AA			56 kohms,1/16W
R908	VRS-CY1JB102J	AA			1 kohm,1/16W
R909	VRS-CY1JB333J	AA			33 kohms,1/16W
R910	VRD-ST2CD102J	AA			1 kohm,1/6W
R911	VRS-CY1JB563J	AA			56 kohms,1/16W
⚠ R912	VRG-ST2EC101J	AB			100 ohm,1/4W,Fusible
R913	VRN-VV3LAR22J	AC			0.22 ohms,3W
R916	VRN-VV3LAR22J	AC			0.22 ohms,3W
R917	VRN-VV3LAR10J	AD			0.1 ohm,3W
R918	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R919	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R920	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R921	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R922	VRN-VV3LAR10J	AD			0.1 ohm,3W
R925	VRD-RT2HD152J	AA			1.5 kohms,1/2W
R926	VRD-RT2HD152J	AA			1.5 kohms,1/2W
R927	VRD-ST2EE393J	AA			39 kohms,1/4W
R928	VRD-ST2EE393J	AA			39 kohms,1/4W
R929	VRD-ST2EE473J	AA			47 kohms,1/4W
R930	VRD-ST2EE473J	AA			47 kohms,1/4W
R934	VRD-ST2CD563J	AA			56 kohms,1/6W
R935	VRD-ST2CD563J	AA			56 kohms,1/6W
R937	VRS-CY1JB563J	AA			56 kohms,1/16W
R938	VRD-RT2HD100J	AA			10 ohm,1/2W
R939	VRD-RT2HD100J	AA			10 ohm,1/2W
R940	VRD-RT2HD100J	AA			10 ohm,1/2W
R941	VRD-RT2HD100J	AA			10 ohm,1/2W
R942	VRS-VV3DA471J	AB			470 ohms,2W
R943	VRS-VV3DA471J	AB			470 ohms,2W
R944	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R945	VRD-ST2CD152J	AA			1.5 kohms,1/6W
R946	VRS-CY1JB473J	AA			47 kohms,1/16W
R947	VRS-CY1JB153J	AA			15 kohms,1/16W
R949	VRD-RT2HD102J	AA			1 kohm,1/2W
R950	VRD-ST2CD683J	AA			68 kohms,1/6W
R956	VRS-CY1JB102J	AA			1 kohm,1/16W
⚠ R958	VRG-ST2EC101J	AB			100 ohm,1/4W,Fusible
R983	VRS-CY1JB333J	AA			33 kohms,1/16W
R984	VRS-CY1JB182J	AA			1.8 kohms,1/16W
R985	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R986	VRS-CY1JB822J	AA			8.2 kohms,1/16W
R987	VRS-CY1JB222J	AA			2.2 kohms,1/16W
R988	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RD01	VRD-ST2CD681J	AA			680 ohms,1/6W
RD02	VRS-CY1JB821J	AA			820 ohms,1/16W
RD03	VRS-CY1JB102J	AA			1 kohm,1/16W
RD04	VRD-ST2CD152J	AA			1.5 kohms,1/6W
RD05	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RD06	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RD11	VRS-CY1JB681J	AA			680 ohms,1/16W
RD12	VRS-CY1JB821J	AA			820 ohms,1/16W
RD13	VRD-ST2CD102J	AA			1 kohm,1/6W
RD14	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RD15	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RD16	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RD17	VRS-CY1JB392J	AA			3.9 kohms,1/16W
RD18	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RD19	VRS-CY1JB103J	AA			10 kohm,1/16W
RD20	VRS-CY1JB153J	AA			15 kohms,1/16W
RD21	VRS-CY1JB333J	AA			33 kohms,1/16W
RD23	VRD-ST2CD681J	AA			680 ohms,1/6W
RD24	VRD-ST2CD821J	AA			820 ohms,1/6W
RD25	VRD-ST2CD102J	AA			1 kohm,1/6W
RD26	VRS-CY1JB152J	AA			1.5 kohms,1/16W
RD27	VRS-CY1JB222J	AA			2.2 kohms,1/16W
RD28	VRS-CY1JB272J	AA			2.7 kohms,1/16W
RD29	VRS-CY1JB392J	AA			3.9 kohms,1/16W
RD30	VRS-CY1JB562J	AA			5.6 kohms,1/16W
RD31	VRS-CY1JB103J	AA			10 kohm,1/16W
RD32	VRS-CY1JB153J	AA			15 kohms,1/16W
RM1	VRS-CY1JB103J	AA			10 kohm,1/16W
RM2	VRS-CY1JB103J	AA			10 kohm,1/16W
RM5	VRS-CY1JB271J	AA			270 ohms,1/16W
RM6	VRS-CY1JB681J	AA			680 ohms,1/16W

NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] OTHER CIRCUITRY PARTS					
BI601	QCNWN2715AWPZ	AG			Connector Ass'y,9/8Pin Within CNS601
BI603	QCNWN2714AWPZ	AK			Connector Ass'y,6/5Pin Within CNS603
BI801	QCNWN2713AWPZ	AH			Connector Ass'y,11/10Pin Within CNS801
CNP1	QCNCWYP16AWZZ	AD			Socket,16Pin
CNP2	92LCONE8P53254	AC			Plug,8Pin
CNP3	92LCONE6P53253	AC			Plug,6Pin
CNP3A	92LCONE6P53254	AC			Plug,6Pin
CNP4	92LCONE7P53253	AC			Socket,7Pin
CNP4A	QCNCWZO11AWZZ	AC			Socket,11Pin
CNP5	QCNCWZY16AWZZ	AD			Socket,16Pin
CNP6	QCNCWZX11AWZZ	AC			Socket,11Pin
CNP101	QCNCM705CAFZZ	AA			Plug,3Pin
CNP102	QCNCM705GAFZZ	AB			Plug,7Pin
CNP301	92LCONE2P5268	AB			Plug,2Pin
CNP603	92LCONE5P53253	AB			Plug,5Pin
CNP701A	QCNCWZY16AWZZ	AD			Socket,16Pin
CNP701B	QCNCWZX16AWZZ	AD			Socket,16Pin
CNP702A	QCNCWZY07AWZZ	AC			Socket,7Pin
CNP704	QCNCWZY16AWZZ	AD			Socket,16Pin
CNP801	92LCONEAP5267X	AC			Plug,10Pin
CNP802	QCNCW012FAWZZ	AC			Plug,6Pin
CNP901	QCNCW012EAWZZ	AC			Socket,5Pin
CNP971	92LCONE2P53253	AB			Plug,2Pin
CNS3	QCNWNA087AWPZ	AF			Connector Ass'y,6/6Pin with CNS3B
CNS971	QCNWNA080AWPZ	AC			Connector Ass'y,2Pin
⚠ F801	QFS-D502DAWNI	AC			Fuse,5A/125V
⚠ F802	QFS-D502DAWNI	AC			Fuse,5A/125V
⚠ F803	QFS-D202BSJNI	AB			Fuse,2A/125V
⚠ F804	QFS-D202BSJNI	AB			Fuse,2A/125V
⚠ F805	QFS-D502DAWNI	AC			Fuse,5A/125V
FFC1	QCNWN2700AWPZ	AE			Flat Cable,16Pin
FFC4	QCNWN2701AWPZ	AD			Flat Cable,11Pin
FFC701	QCNWN2716AWPZ	AF			Flat Cable,16Pin
FFC702	QCNWN2495AWZZ	AD			Flat Cable,7Pin
FFC704	QCNWN2718AWPZ	AF			Flat Cable,16Pin
FJ1	RCORFA001AWZZ	AB			Ferrit Bead
FL701	VVKNA12MM44-1	AX			FL Display
FW705	QCNWN2712AWPZ	AD			Flat Wire,6Pin
FW901	QCNWN2711AWPZ	AD			Flat Wire,5Pin
JK690	QSOCJ0313AWZZ	AF			Jack,Game Input
JK691	QSOCJ0120AWZZ	AD			Jack,Video Out
JK692	QJAKM0004AWZZ	AK			Jack,Headphones
JOG701	QSW-ZA001AWZZ	AE			Switch,Jog Type [Volume]
LG1	QLUGP0001AWZZ	AC			Lug Terminal
LG2	QLUGP0001AWZZ	AC			Lug Terminal
LG3	QLUGP0001AWZZ	AC			Lug Terminal
LG4	QLUGP0001AWZZ	AC			Lug Terminal
M1	92LMTR5529AASY	AD			Motor With Gear [Tray]
M2	92LMTR5529AASY	AD			Motor With Gear [Main Cam]
M901	RMOTV0059AWZZ	AL			Motor,Fan
NM1	92LMTR5515CASY	AS			Motor with Chassis [Spindle]
NM2	92LMTR1854BASY	AP			Motor with Gear [Sled]
NSW1	QSW-F9001AW01	AD			Switch,Push Type [Pickup In]
⚠ RL841	RRLYD0018AWZZ	AH			Relay
RL914	RRLYD0016AWZZ	AH			Relay
RX1	VHPGP1S094HCZ	AF			Photo Interrupter,GP1S094HCZ
RX701	VHLPIC3704/-1	AG			Remote Sensor,PIC3704
SO302	QTANC0206AWZZ	AD			Terminal,FM Antenna
SO901	QTANA0424AWZZ	AE			Terminal,Speaker
SW1	QSW-P9003AWZZ	AD			Switch,Push Type [CLAMP]
SW2	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW1]
SW3	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW2]
SW4	QSW-P9006AWZZ	AF			Switch,Push Type [DISC]
SW701	92LSWICH1401AT	AC			Switch,Key Type [Power On/Stand-by]
SW702	92LSWICH1401AT	AC			Switch,Key Type [Clock/Timer]
SW703	92LSWICH1401AT	AC			Switch,Key Type [Tuning Up]
SW704	92LSWICH1401AT	AC			Switch,Key Type [Tuning Down]
SW705	92LSWICH1401AT	AC			Switch,Key Type [Fast Rewind/Preset Down]
SW706	92LSWICH1401AT	AC			Switch,Key Type [Equalizer]
SW707	92LSWICH1401AT	AC			Switch,Key Type [Fast Forward/Preset Up]
SW712	92LSWICH1401AT	AC			Switch,Key Type [Tuner (Band)]
SW713	92LSWICH1401AT	AC			Switch,Key Type [CD]
SW714	92LSWICH1401AT	AC			Switch,Key Type [Tape]
SW715	92LSWICH1401AT	AC			Switch,Key Type [Game/Video]
SW716	92LSWICH1401AT	AC			Switch,Key Type [X-Bass/Demo]
SW717	92LSWICH1401AT	AC			Switch,Key Type [Left]
SW718	92LSWICH1401AT	AC			Switch,Key Type [Up]
SW719	92LSWICH1401AT	AC			Switch,Key Type [Character]
SW720	92LSWICH1401AT	AC			Switch,Key Type [Right]
SW721	92LSWICH1401AT	AC			Switch,Key Type [Enter]
SW722	92LSWICH1401AT	AC			Switch,Key Type [Down]
SW723	92LSWICH1401AT	AC			Switch,Key Type [MP3 Navigation]

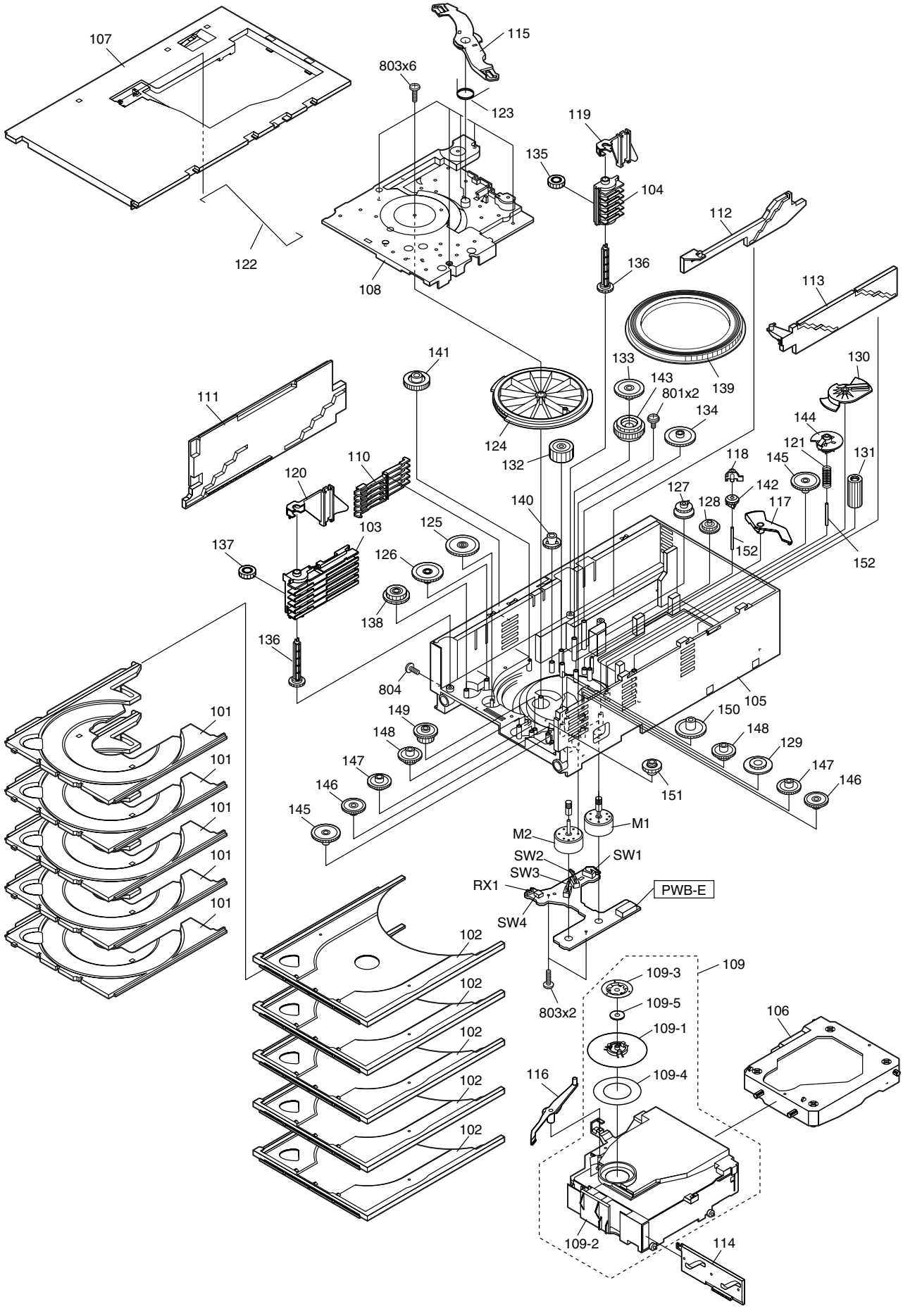
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[10] OTHER CIRCUITRY PARTS					
SW725	92LSWICH1401AT	AC			Switch,Key Type [Play/Repeat]
SW726	92LSWICH1401AT	AC			Switch,Key Type [Stop]
SW727	92LSWICH1401AT	AC			Switch,Key Type [Rec/Pause]
SW728	92LSWICH1401AT	AC			Switch,Key Type [Memory/Set]
SW729	92LSWICH1401AT	AC			Switch,Key Type [Open/Close]
SW730	92LSWICH1401AT	AC			Switch,Key Type [Direct Play]
SW731	92LSWICH1401AT	AC			Switch,Key Type [Disc2]
SW732	92LSWICH1401AT	AC			Switch,Key Type [Disc4]
SW733	92LSWICH1401AT	AC			Switch,Key Type [Disc5]
SW734	92LSWICH1401AT	AC			Switch,Key Type [Disc3]
SW735	92LSWICH1401AT	AC			Switch,Key Type [Disc1]
VD301	VHCSVC347S/-1	AG			Variable Capacitance,SVC347S
VD302	VHCSVC230C/-1	AD			Variable Capacitance,SVC230C
VD303	VHCSVC230C/-1	AD			Variable Capacitance,SVC230C
WTM705	QCNCW019FAWZZ	AB			Socket,6Pin
WTM901	QCNCW019EAWZZ	AB			Socket,5Pin

[11] CD MECHANISM PARTS



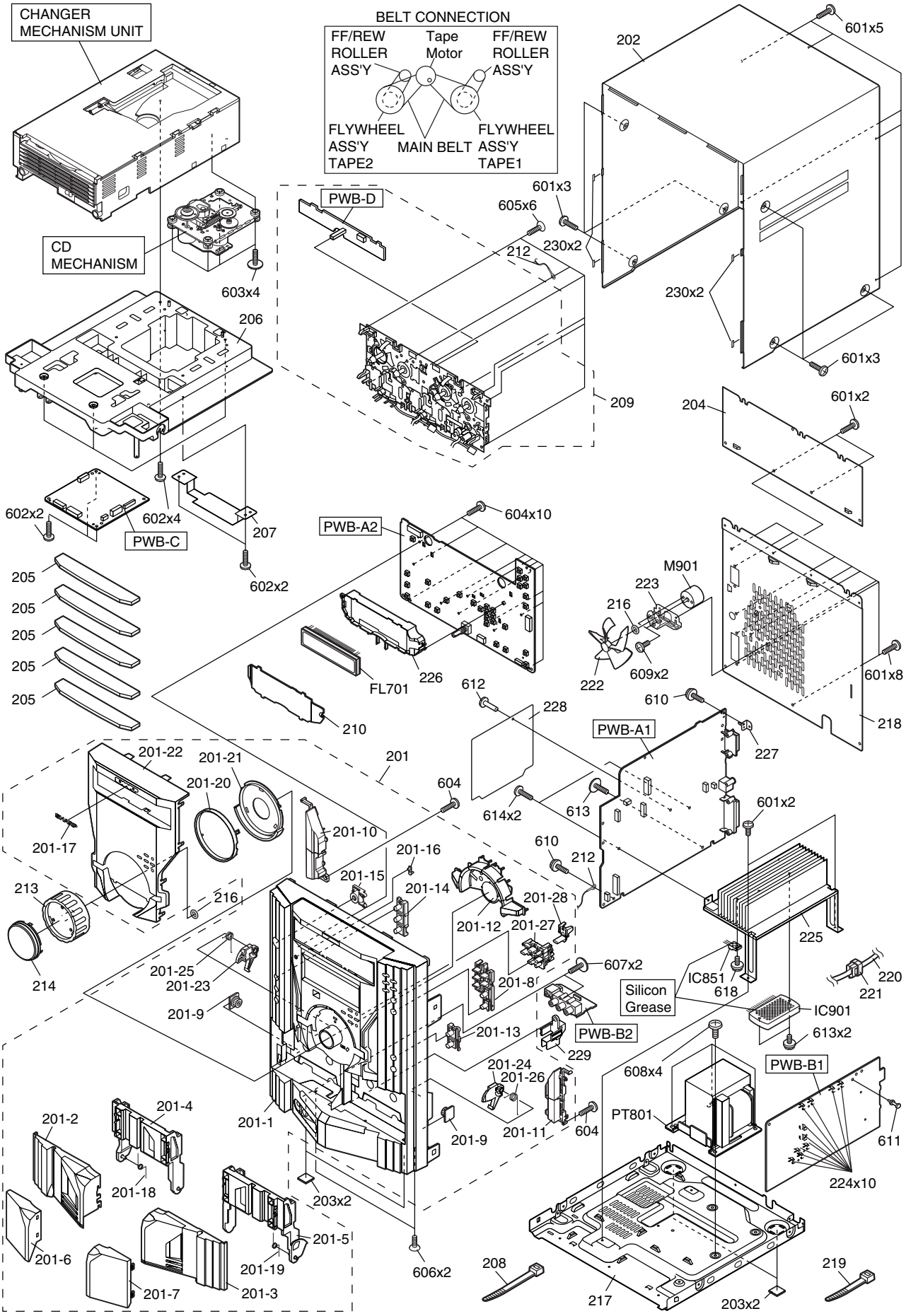
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[11] CD MECHANISM PARTS					
301	NGERH0011AWZZ	AC			Gear,Middle
302	NGERH0012AWZZ	AC			Gear,Drive
304	NSFTM0020AWFW	AD			Shaft,Guide
305	92LMCUSN1524A	AD			Cushion
⚠ 306	92LHPC1LFASY	BB			Pickup Unit Ass'y
306- 1	--------	—			Pickup Unit (Not Replacement Item)
306- 2	NGERR0043AFZZ	AC			Gear,Rack
306- 3	MSPRC0961AFZZ	AA			Spring,Rack
307	PCUSG0001AWSA	AD			Cushion
308	PCUSG0004AWSA	AD			Cushion
701	XBSSD26P06000	AA			Screw,M2.6x6mm
703	XBBSD20P03000	AA			Screw,M2x3mm
704	LX-WZ1070AFZZ	AA			Washer,M1.5xM3.8x0.25mm
NM1	92LMTR5515CASY	AS			Motor with Chassis [Spindle]
NM2	92LMTR1854BASY	AP			Motor with Gear [Sled]
NSW1	QSW-F9001AW01	AD			Switch,Push Type [Pickup In]

[12] CHANGER MECHANISM PARTS



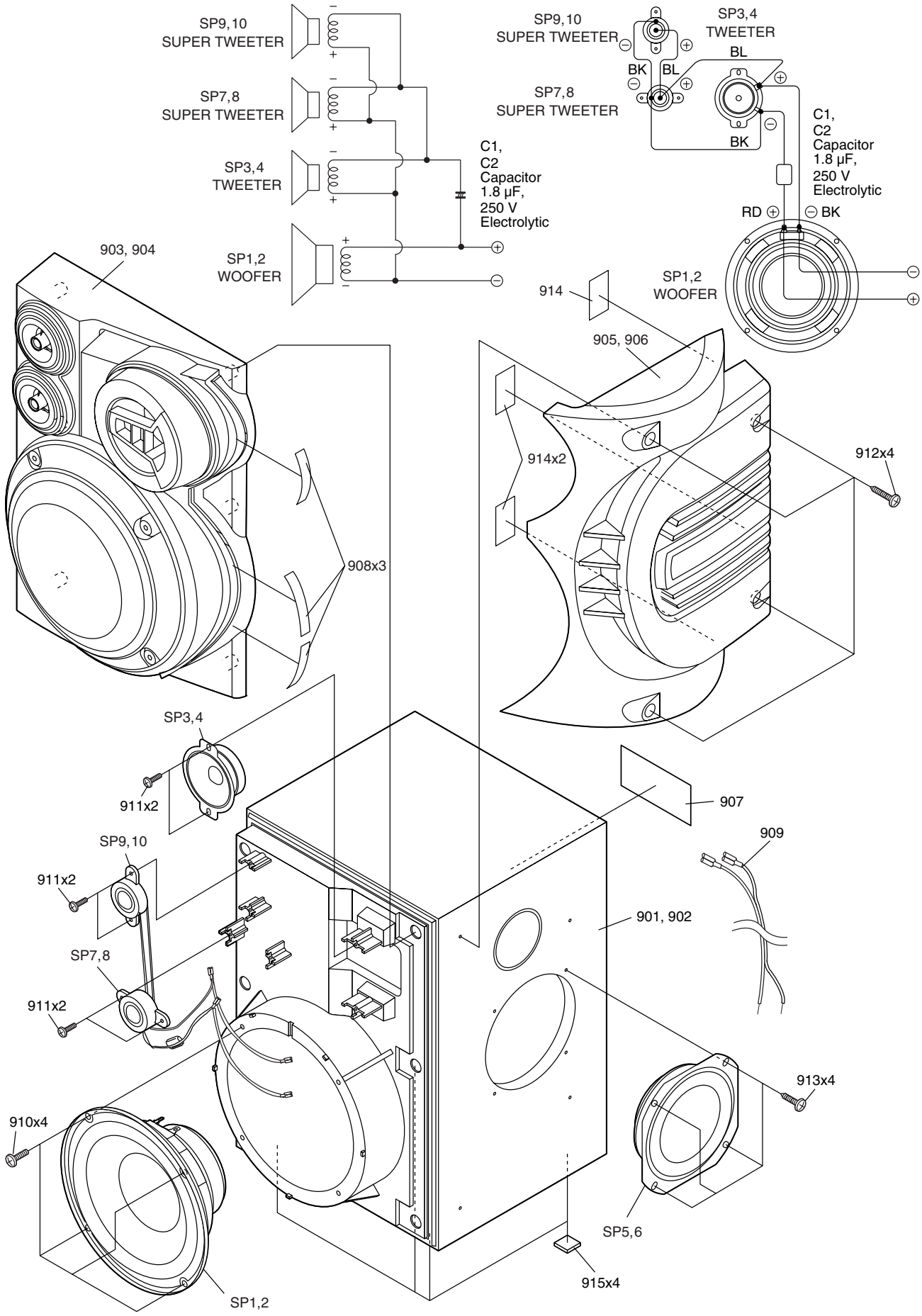
NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[12] CHANGER MECHANISM PARTS					
101	GCOVA1513AWZZ	AF			Disc Tray
102	GCOVA1514AWZZ	AF			Guide Tray
103	LANGG0008AWZZ	AD			Outer Tray Guide
104	LANGG0009AWZZ	AC			Inner Tray Guide
105	LCHSM0194AWZZ	AP			Main Base
106	LHLDZ9017AWZZ	AF			CD Mechanism Holder
107	LPLTP0014AWZZ	AK			Top Plate
108	LPLTP0015AWZZ	AG			Gear Plate
109	MHOLD5529ASY	AP			Up/Down Holder Ass'y
109- 1	LHLDM9001AWZZ	AD			Stabilizer
109- 2	LHLDZ9019AWM1	AK			Up/Down Holder Ass'y
109- 3	LPLTM0017AWZZ	AB			Stabilizer Plate
109- 4	LPLTMA001AWFW	AC			Plate
109- 5	PMAGF0003AWZZ	AF			Magnet
110	MLEVP0129AWZZ	AC			Tray Lock Lever
111	MLEVP0130AWZZ	AG			Gear Up/Down Board
112	MLEVP0131AWZZ	AD			Mechanism Up/Down Board (L)
113	MLEVP0132AWZZ	AD			Mechanism Up/Down Board (R)
114	MLEVP0133AWZZ	AC			Mechanism Clamp Board
115	MLEVP0134AWZZ	AD			L/R Joint Lver
116	MLEVP0135AWZZ	AC			Tray Set Lever
117	MLEVP0136AWZZ	AC			Mechanism Clamp Switch Lever
118	MLEVP0137AWZZ	AC			Mechanism Clamp Switch Arm
119	MLEVP0138AWZZ	AB			Inner GR Up/Down Lever
120	MLEVP0139AWZZ	AC			Outer GR Up/Down Lever
121	MSPRC0044AWFJ	AB			Shift Spring
122	MSPRD0191AWFJ	AC			Disc Stop Spring
123	MSPRD0192AWFJ	AB			Balance Spring
124	NGERH0176AWZZ	AF			Tray Big Gear
125	NGERH0177AWZZ	AC			Tray Front Gear A
126	NGERH0178AWZZ	AC			Tray Front Gear B
127	NGERH0179AWZZ	AC			Tray Rear Gear A
128	NGERH0180AWZZ	AB			Tray Rear Gear B
129	NGERH0181AWZZ	AC			Mechanism Clamp Gear A
130	NGERH0182AWZZ	AC			Mechanism Clamp Joint Gear
131	NGERH0183AWZZ	AC			Mechanism Clamp Board Gear
132	NGERH0184AWZZ	AC			Tray Rear Joint Gear A
133	NGERH0185AWZZ	AC			Tray Rear Joint Gear B
134	NGERH0186AWZZ	AC			Tray Rear Joint Gear C
135	NGERH0187AWZZ	AB			Tray Rear Drive Gear
136	NGERH0188AWZZ	AC			Tray Drive Gear
137	NGERH0189AWZZ	AB			Tray Front Drive Gear
138	NGERH0190AWZZ	AC			Tray Front Joint Gear
139	NGERH0191AWZZ	AE			Mode Big Gear
140	NGERH0192AWZZ	AC			G-Up/Down Gear A
141	NGERH0193AWZZ	AC			G-Up/Down Gear B
142	NGERH0194AWZZ	AB			Mechanism Up/Down Gear A
143	NGERH0195AWZZ	AC			Mechanism Up/Down Gear B
144	NGERH0196AWZZ	AC			Mechanism Clamp Switch Gear
145	NGERH0198AWZZ	AB			Reduction Gear A
146	NGERH0199AWZZ	AB			Reduction Gear B
147	NGERH0200AWZZ	AB			Reduction Gear C
148	NGERH0201AWZZ	AB			Reduction Gear D
149	NGERH0202AWZZ	AB			Up/Down Reduction Gear E
150	NGERH0203AWZZ	AB			Up/Down Reduction Gear F
151	NGERH0204AWZZ	AB			Tray Reduction Gear E
152	NSFTT0084AWFD	AD			Shaft,Main Base
801	LX-BZA006AWFD	AB			Screw,Special
803	XEBSD20P10000	AA			Screw,M2x10mm
804	XEBSD30P10000	AA			Screw,M3x10mm
M1	92LMTR5529AASY	AD			Motor with Gear [Tray]
M2	92LMTR5529AASY	AD			Motor with Gear [Main Cam]
RX1	VHPGP1S094HCZ	AF			Photo Interrupter,GP1S094HCZ
SW1	QSW-P9003AWZZ	AD			Switch,Push Type [CLAMP]
SW2	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW1]
SW3	QSW-P9003AWZZ	AD			Switch,Push Type [TRAY SW2]
SW4	QSW-P9006AWZZ	AF			Switch,Push Type [DISC]

[13] CABINET PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[13] CABINET PARTS					
201	CCABA6075AW01				Front Panel Ass'y
201- 1	---------	—			Front Panel (Not Replacement Item)
201- 2	GCOVA1521AWSA	AK			Cover,Cassette [Tape 1]
201- 3	GCOVA1522AWSA	AK			Cover,Cassette [Tape 2]
201- 4	GDORF0127AWSA	AE			Holder,Cassette [Tape 1]
201- 5	GDORF0128AWSA	AE			Holder,Cassette [Tape 2]
201- 6	HDECQ1108AWSA	AE			Panel,Cassette [Tape 1]
201- 7	HDECQ1109AWSA	AE			Panel,Cassette [Tape 2]
201- 8	JKNBZ0982AWSA	AE			Button,Disc Number
201- 9	MLIF-A001AWZZ	AD			Damper
201-10	JKNBZA040AWSA	AF			Button,Operation A
201-11	JKNBZA041AWSA	AF			Button,Operation B
201-12	JKNBZ0985AWSA	AE			Button,Function
201-13	JKNBZ0986AWSA	AE			Button,Memory
201-14	JKNBZ0987AWSA	AE			Button,Tuning
201-15	JKNBZ0991AWSA	AF			Button,Power
201-16	GCOVA1533AWSA	AC			Cover,Timer
201-17	HBDGB1007AWSA	AD			Badge,SHARP
201-18	MSPRDA002AWFJ	AB			Spring,Cassette [Tape 1]
201-19	MSPRDA003AWFJ	AB			Spring,Cassette [Tape 2]
201-20	HDECQA039AWSA	AH			Volume Knob Ring,A
201-21	HDECQ1106AWSA	AF			Volume Knob Ring,B
201-22	HDECQA090AWSA	AK			Decoration Plate,Amp.
201-23	MLOKC0014AWZZ	AC			Lock,Cassette [Tape 1]
201-24	MLOKC0015AWZZ	AC			Lock,Cassette [Tape 2]
201-25	MSPRD0196AWFJ	AB			Spring,Cassette Lock [Tape 1]
201-26	MSPRD0197AWFJ	AC			Spring,Cassette Lock [Tape 2]
201-27	JKNBZ0989AWSA	AE			Button,MP3 Navigation,B
201-28	JKNBZA058AWSA	AH			Button,MP3 Navigation,A
202	GCAB-3101AWSA	AY			Cabinet,Top/Side
203	PCUSG0022AWZZ	AB			Cushion,Leg
204	GITARA206AWSA	AK			Rear Panel,B
205	GCOVA1520AWSA	AG			Cover,CD Tray
206	LCHSZ0025AWZZ	AM			Chassis,Changer
207	PSLDMA009AWFW	AG			Shield,Dust Cover
208	92LNBAND1318A	AA			Nylon Band,80mm
209	KMECBA001AWZZ	BC			Tape Mechanism Ass'y
210	HDECQ1110AWSA	AF			Panel,Edge Light
212	QCNWN1860AWZZ	AC			Lug Wire
213	JKNBK0103AWSA	AD			Knob,Volume
214	HDECQ1104AWSA	AL			Cover,Volume Knob
216	92LCSPR1431C	AA			Spring,Ring
217	LCHSM0198AWFW	AQ			Chassis,Main
218	GITARA057AWSA	AP			Rear Panel,A
219	LBND-1011AWZZ	AA			Nylon Band
⚠ 220	QACCD0022AWZZ	AM			AC Power Supply Cord
221	LBSHC0005AWZZ	AD			Bushing,AC Power Supply Cord
222	NFANP0001AWZZ	AD			Rotary Fan
223	LANGK0437AWFW	AE			Bracket,Fan Support A
⚠ 224	QFSHD0001AWZZ	AB			Holder,Fuse
225	PRDARA018AWFW	AX			Heat Sink
226	LHLDZ9024AWZZ	AD			Holder,Edge Light A
227	LANGT0042AWFW	AC			Bracket,PWB Support
228	PSHEPA019AWZZ	AF			Fiber Sheet,Main PWB
229	LHLDZA004AWZZ	AC			Holder,Rib Support
230	PFLT-A006AWZZ	AB			Felt
601	XJBSD30P10000	AA			Screw,M3x10mm
602	XEBSD30P10000	AA			Screw,M3x10mm
603	LX-EZ0005AWFD	AA			Screw,M2.6x10mm
604	XEBSD26P10000	AA			Screw,M2.6x10mm
605	XESSD30P10000	AA			Screw,M3x10mm
606	XJSSD30P08000	AA			Screw,M3x8mm
607	LX-EZ0010AWFD	AA			Screw,Special
608	XHBSD40P08000	AA			Screw,M4x8mm
609	XBBSD20P04000	AA			Screw,M2x4mm
610	LX-JZ0010AFFD	AA			Screw,M3x10mm
611	LX-LZA002AWZZ	AD			Push Rivet
612	LX-LZ0002AW00	AC			Snap Rivet
613	LX-JZ0037AWFD	AB			Screw,M3x18mm
614	LX-JZ0044AWFF	AB			Screw,M3x10mm
618	LX-JZ0036AWFD	AB			Screw,Special

[14] SPEAKER BOX PARTS



NO.	PARTS CODE	PRICE RANK	NEW MARK	PART RANK	DESCRIPTION
[14] SPEAKER BOX PARTS					
901	GBOXLA023AWSA	BE			Speaker Box Ass'y,Left
902	GBOXRA023AWSA	BE			Speaker Box Ass'y,Right
903	CPNLSA005AW03	BD			Front Panel Ass'y,Left
904	CPNLSA006AW03	BD			Front Panel Ass'y,Right
905	HPNLSA007AWSA	AX			Side Panel,Left
906	HPNLSA008AWSA	AX			Side Panel,Right
907	TSPC-A230AWZZ	AC			Label,Specifications
908	PFLT-0046AWZZ	AC			Felt
909	QCNWHA001AWZZ	AK			Speaker Cord Ass'y
910	XJBSD40P16000	AB			Screw,M4x16mm
911	XJBSD30P12000	AA			Screw,M3x12mm
912	XMPSF40P35000	AC			Screw,M4x35mm
913	XMBSF40P16000	AC			Screw,M4x16mm
914	PFLT-0079AWZZ	AG			Felt
915	PCUSG0147AWZZ	AC			Cushion,Leg
SP1	RSP-ZA022AWZZ	BD			Woofer
SP2	RSP-ZA022AWZZ	BD			Woofer
SP3	RSP-ZA023AWZZ	AS			Tweeter
SP4	RSP-ZA023AWZZ	AS			Tweeter
SP5	RSP-ZA008AWZZ	AS			Passive Radiator
SP6	RSP-ZA008AWZZ	AS			Passive Radiator
SP7	LHLDZA006AWM1	AS			Super Tweeter (with Capacitor)
SP8	LHLDZA006AWM1	AS			Super Tweeter (with Capacitor)
SP9	LHLDZA006AWM1	AS			Super Tweeter (with Capacitor)
SP10	LHLDZA006AWM1	AS			Super Tweeter (with Capacitor)
[15] PACKING PARTS					
	QANTL0005AWZZ	AG			AM Loop Antenna
	SPAKAA010AWZZ	AL			Packing Add.,Left/Right
	SPAKAA013AWZZ	AM			Packing Add.,Top/Bottom
	SPAKCA166AWZZ				Packing Case
	SPAKP0032AWZZ	AF			Polyethylene Bag,Unit
	SPAKZA007AWZZ	AH			Spacer
	SPAKZA010AWZZ	AF			Sheet
	SSAKH0053AWZZ	AC			Polyethylene Bag,Speaker
	TINSZA110AWZZ	AG			Operation Manual
	TLABR1374AWZZ	AB			Label,Bar Code
	TLABZA113AWSA	AB			Label,Energy Star
	TLABZA132AWZZ	AH			Label,Feature
	92LBAG1460C1	AB			Polyethylene Bag,Accessories
	92LFANT1746A	AD			FM Antenna
1	RRMCG0395AWSA	AU			Remote Control
1- 1	GFTAT1017AWSA	AG			Lid,Remote Control
[16] P.W.B. ASSEMBLY (Not Replacement Item)					
PWB-A	92LPWB6075MANS	—			Main/Display (PWB-A1,2) (Combined Ass'y)
⚠ PWB-B	92LPWB6075PWRS	—			Power/Game Input (PWB-B1,2) (Combined Ass'y)
PWB-C	92LPWB5612CDUS	—			CD Servo
PWB-D	--------	—			Tape Mechanism
PWB-E	QPWBF1055AWZZ	AE			5-Changer Motor (PWB Only)
PWB-F	QPWBF0027AWZZ	AD			CD Motor (PWB Only)
[17] OTHER SERVICE PART					
	UDSKA0004AFZZ	AZ			CD Pickup Lens Cleaner

■INDEX

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
[C]				
CCABA6075AW01	13-201			
CPNLSA005AW03	14-903	BD		
CPNLSA006AW03	14-904	BD		
[G]				
GBOXLA023AWSA	14-901	BE		
GBOXRA023AWSA	14-902	BE		
GCAB-3101AWSA	13-202	AY		
GCOVA1513AWZZ	12-101	AF		
GCOVA1514AWZZ	12-102	AF		
GCOVA1520AWSA	13-205	AG		
GCOVA1521AWSA	13-201- 2	AK		
GCOVA1522AWSA	13-201- 3	AK		
GCOVA1533AWSA	13-201-16	AC		
GDORF0127AWSA	13-201- 4	AE		
GDORF0128AWSA	13-201- 5	AE		
GFTAT1017AWSA	15-1- 1	AG		
GITARA057AWSA	13-218	AP		
GITARA206AWSA	13-204	AK		
[H]				
HBDGB1007AWSA	13-201-17	AD		
HDECQ1104AWSA	13-214	AL		
HDECQ1106AWSA	13-201-21	AF		
HDECQ1108AWSA	13-201- 6	AE		
HDECQ1109AWSA	13-201- 7	AE		
HDECQ1110AWSA	13-210	AF		
HDECQA039AWSA	13-201-20	AH		
HDECQA090AWSA	13-201-22	AK		
HPNLSA007AWSA	14-905	AX		
HPNLSA008AWSA	14-906	AX		
[J]				
JKNBK0103AWSA	13-213	AD		
JKNBZ0982AWSA	13-201- 8	AE		
JKNBZ0985AWSA	13-201-12	AE		
JKNBZ0986AWSA	13-201-13	AE		
JKNBZ0987AWSA	13-201-14	AE		
JKNBZ0989AWSA	13-201-27	AE		
JKNBZ0991AWSA	13-201-15	AF		
JKNBZA040AWSA	13-201-10	AF		
JKNBZA041AWSA	13-201-11	AF		
JKNBZA058AWSA	13-201-28	AH		
[K]				
KMECBA001AWZZ	13-209	BC		
[L]				
LANGG0008AWZZ	12-103	AD		
LANGG0009AWZZ	12-104	AC		
LANGK0437AWFW	13-223	AE		
LANGT0042AWFW	13-227	AC		
LBND-1011AWZZ	13-219	AA		
LBSHC0005AWZZ	13-221	AD		
LCHSM0194AWZZ	12-105	AP		
LCHSM0198AWFW	13-217	AQ		
LCHSZ0025AWZZ	13-206	AM		
LHLDM9001AWZZ	12-109- 1	AD		
LHLDZ9017AWZZ	12-106	AF		
LHLDZ9019AWM1	12-109- 2	AK		
LHLDZ9024AWZZ	13-226	AD		
LHLDZA004AWZZ	13-229	AC		
LHLDZA006AWM1	14-SP7	AS		
"	14-SP8	AS		
"	14-SP9	AS		
"	14-SP10	AS		
LPLTM0017AWZZ	12-109- 3	AB		
LPLTMA001AWFW	12-109- 4	AC		
LPLTP0014AWZZ	12-107	AK		
LPLTP0015AWZZ	12-108	AG		
LX-BZA006AWFD	12-801	AB		
LX-EZ0005AWFD	13-603	AA		
LX-EZ0010AWFD	13-607	AA		
LX-JZ0010AFFD	13-610	AA		
LX-JZ0036AWFD	13-618	AB		
LX-JZ0037AWFD	13-613	AB		
LX-JZ0044AWFF	13-614	AB		
LX-LZ0002AW00	13-612	AC		
LX-LZA002AWZZ	13-611	AD		
LX-WZ1070AFZZ	11-704	AA		
[M]				
MHOLD5529ASY	12-109	AP		
MLEVP0129AWZZ	12-110	AC		
MLEVP0130AWZZ	12-111	AG		
MLEVP0131AWZZ	12-112	AD		
MLEVP0132AWZZ	12-113	AD		
MLEVP0133AWZZ	12-114	AC		
MLEVP0134AWZZ	12-115	AD		
MLEVP0135AWZZ	12-116	AC		
MLEVP0136AWZZ	12-117	AC		
MLEVP0137AWZZ	12-118	AC		
MLEVP0138AWZZ	12-119	AB		
MLEVP0139AWZZ	12-120	AC		
MLIF-A001AWZZ	13-201- 9	AD		
MLOKC0014AWZZ	13-201-23	AC		
MLOKC0015AWZZ	13-201-24	AC		
MSPRC0044AWFJ	12-121	AB		
MSPRC0961AFZZ	11-306- 3	AA		
MSPRD0191AWFJ	12-122	AC		
MSPRD0192AWFJ	12-123	AB		
MSPRD0196AWFJ	13-201-25	AB		
MSPRD0197AWFJ	13-201-26	AC		
MSPRDA002AWFJ	13-201-18	AB		
MSPRDA003AWFJ	13-201-19	AB		
[N]				
NFANP0001AWZZ	13-222	AD		
NGERH0011AWZZ	11-301	AC		
NGERH0012AWZZ	11-302	AC		
NGERH0176AWZZ	12-124	AF		
NGERH0177AWZZ	12-125	AC		
NGERH0178AWZZ	12-126	AC		
NGERH0179AWZZ	12-127	AC		
NGERH0180AWZZ	12-128	AB		
NGERH0181AWZZ	12-129	AC		
NGERH0182AWZZ	12-130	AC		
NGERH0183AWZZ	12-131	AC		
NGERH0184AWZZ	12-132	AC		
NGERH0185AWZZ	12-133	AC		
NGERH0186AWZZ	12-134	AC		
NGERH0187AWZZ	12-135	AB		
NGERH0188AWZZ	12-136	AC		
NGERH0189AWZZ	12-137	AB		
NGERH0190AWZZ	12-138	AC		
NGERH0191AWZZ	12-139	AE		
NGERH0192AWZZ	12-140	AC		
NGERH0193AWZZ	12-141	AC		
NGERH0194AWZZ	12-142	AB		
NGERH0195AWZZ	12-143	AC		
NGERH0196AWZZ	12-144	AC		
NGERH0198AWZZ	12-145	AB		
NGERH0199AWZZ	12-146	AB		
NGERH0200AWZZ	12-147	AB		
NGERH0201AWZZ	12-148	AB		
NGERH0202AWZZ	12-149	AB		
NGERH0203AWZZ	12-150	AB		
NGERH0204AWZZ	12-151	AB		
NGERR0043AFZZ	11-306- 2	AC		
NSFTM0020AWFW	11-304	AD		
NSFTT0084AWFD	12-152	AD		
[P]				
PCUSG0001AWSA	11-307	AD		
PCUSG0004AWSA	11-308	AD		
PCUSG0022AWZZ	13-203	AB		
PCUSG0147AWZZ	14-915	AC		
PFLT-0046AWZZ	14-908	AC		
PFLT-0079AWZZ	14-914	AG		
PFLT-A006AWZZ	13-230	AB		
PMAGF0003AWZZ	12-109- 5	AF		
PRDARA018AWFW	13-225	AX		
PSHEPA019AWZZ	13-228	AF		
PSLDMA009AWFW	13-207	AG		
[Q]				
QACCD0022AWZZ	13-220	AM		
QANTL0005AWZZ	15-	AG		
QCNCM705CAFZZ	10-CNP101	AA		
QCNCM705GAFZZ	10-CNP102	AB		
QCNCW012EAWZZ	10-CNP901	AC		
QCNCW012FAWZZ	10-CNP802	AC		
QCNCW019EAWZZ	10-WTM901	AB		
QCNCW019FAWZZ	10-WTM705	AB		
QCNCWYP16AWZZ	10-CNP1	AD		
QCNCWZO11AWZZ	10-CNP4A	AC		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
QCNCWZX11AWZZ	10-CNP6	AC		
QCNCWZX16AWZZ	10-CNP701B	AD		
QCNCWZY07AWZZ	10-CNP702A	AC		
QCNCWZY16AWZZ	10-CNP5	AD		
"	10-CNP704	AD		
"	10-CNP701A	AD		
QCNWHA001AWZZ	14-909	AK		
QCNWN1860AWZZ	13-212	AC		
QCNWN2495AWZZ	10-FFC702	AD		
QCNWN2700AWPZ	10-FFC1	AE		
QCNWN2701AWPZ	10-FFC4	AD		
QCNWN2711AWPZ	10-FW901	AD		
QCNWN2712AWPZ	10-FW705	AD		
QCNWN2713AWPZ	10-BI801	AH		
QCNWN2714AWPZ	10-BI603	AK		
QCNWN2715AWPZ	10-BI601	AG		
QCNWN2716AWPZ	10-FFC701	AF		
QCNWN2718AWPZ	10-FFC704	AF		
QCNWNA080AWPZ	10-CNS971	AC		
QCNWNA087AWPZ	10-CNS3A/B	AF		
QFS-D202BSJNI	10-F803	AB		
"	10-F804	AB		
QFS-D502DAWNI	10-F801	AC		
"	10-F802	AC		
"	10-F805	AC		
QFSHD0001AWZZ	13-224	AB		
QJAKM0004AWZZ	10-JK692	AK		
QLUGP0001AWZZ	10-LG1	AC		
"	10-LG2	AC		
"	10-LG3	AC		
"	10-LG4	AC		
QPWBF0027AWZZ	16-PWB-F	AD		
QPWBF1055AWZZ	16-PWB-E	AE		
QSOCJ0120AWZZ	10-JK691	AD		
QSOCJ0313AWZZ	10-JK690	AF		
QSW-F9001AW01	10-NSW1	AD		
"	11-NSW1	AD		
QSW-P9003AWZZ	10-SW1	AD		
"	10-SW2	AD		
"	10-SW3	AD		
"	12-SW1	AD		
"	12-SW2	AD		
"	12-SW3	AD		
QSW-P9006AWZZ	10-SW4	AF		
"	12-SW4	AF		
QSW-ZA001AWZZ	10-JOG701	AE		
QTANA0424AWZZ	10-SO901	AE		
QTANC0206AWZZ	10-SO302	AD		
[R]				
RC-EZ0004AWZZ	8-C9	AD		
RC-EZ0029AWZZ	8-C920	AN		
"	8-C923	AN		
RC-EZ0106AWZZ	8-C850	AH		
"	8-C921	AH		
"	8-C922	AH		
RCILA0052AWZZ	5-T303	AE		
RCILB0065AWZZ	5-T301	AC		
RCILB0067AWZZ	5-T306	AD		
RCILC0011AWZZ	6-L1	AD		
RCILC0012AWZZ	6-L2	AD		
"	6-L3	AD		
RCILI0017AWZZ	5-T302	AB		
RCILI0019AWZZ	5-T351	AD		
RCILR0056AWZZ	6-L312	AB		
RCILZ0024AWZZ	6-L901	AC		
"	6-L902	AC		
RCILZ0137AFZZ	6-L920	AA		
"	6-L921	AA		
RC-KZ002LAWZZ	8-C844	AC		
RCORFA001AWZZ	10-FJ1	AB		
RCRM-0043AWZZ	7-XL2	AB		
RC-RM0047AWZZ	7-XL1			
RCRSP0003AWZZ	7-XL701	AH		
RCRSP0019AWZZ	7-X352	AF		
RFILA0009AWZZ	4-CF352	AE		
RFILF0003AWZZ	4-CF351	AK		
RFILF0124AFZZ	4-CF303	AD		
RFILR0008AWZZ	4-BF301	AE		
RH-IXA006AWZZ	1-IC5	AT		
RH-IXA022AWZZ	1-IC701	AX		
RMOTV0059AWZZ	10-M901	AL		
RR-HZ0001AWZZ	9-R890	AE		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
RRLYD0016AWZZ	10-RL914	AH		
RRLYD0018AWZZ	10-RL841	AH		
RRMCG0395AWSA	15-1	AU		
RSP-ZA008AWZZ	14-SP5	AS		
"	14-SP6	AS		
RSP-ZA022AWZZ	14-SP1	BD		
"	14-SP2	BD		
RSP-ZA023AWZZ	14-SP3	AS		
"	14-SP4	AS		
RTRNP0483AWZZ	5-PT841	AL		
RTRNP0522AWZZ	5-PT801	BF		
[S]				
SPAKAA010AWZZ	15-	AL		
SPAKAA013AWZZ	15-	AM		
SPAKCA166AWZZ	15-			
SPAKP0032AWZZ	15-	AF		
SPAKZA007AWZZ	15-	AH		
SPAKZA010AWZZ	15-	AF		
SSAKH0053AWZZ	15-	AC		
[T]				
TINSZA110AWZZ	15-	AG		
TLABR1374AWZZ	15-	AB		
TLABZA113AWSA	15-	AB		
TLABZA132AWZZ	15-	AH		
TSPC-A230AWZZ	14-907	AC		
[U]				
UDSKA0004AFZZ	17-	AZ		
[V]				
VCCCCY1HH100D	8-C303	AA		
VCCCCY1HH101J	8-C12	AA		
"	8-C27	AA		
"	8-C28	AA		
"	8-C30	AA		
"	8-C32	AA		
"	8-C72	AA		
"	8-C73	AA		
"	8-C376	AA		
"	8-C377	AA		
"	8-C378	AA		
"	8-C379	AA		
"	8-C907	AA		
"	8-C913	AA		
VCCCCY1HH120J	8-C381	AA		
VCCCCY1HH150J	8-C310	AA		
"	8-C330	AA		
"	8-C382	AA		
"	8-C704	AA		
VCCCCY1HH180J	8-C311	AA		
"	8-C705	AA		
VCCCCY1HH181J	8-C104	AA		
VCCCCY1HH220J	8-C313	AA		
"	8-C334	AA		
"	8-C355	AA		
VCCCCY1HH270J	8-C369	AA		
VCCCCY1HH330J	8-C42	AA		
"	8-C64	AA		
VCCCCY1HH3R0C	8-C908	AA		
"	8-C910	AA		
VCCCCY1HH4R7C	8-C305	AA		
"	8-C308	AA		
"	8-C324	AA		
VCCSBT1HL470J	8-C383	AA		
VCEAZA0JW108M	8-C841	AC		
VCEAZA0JW337M	8-C20	AC		
VCEAZA1AW107M	8-C18	AB		
"	8-C41	AB		
"	8-C44	AB		
"	8-C56	AB		
"	8-C57	AB		
"	8-C61	AB		
"	8-C396	AB		
"	8-C398	AB		
VCEAZA1AW227M	8-C134	AC		
"	8-C603	AC		
"	8-C702	AC		
VCEAZA1AW476M	8-C14	AB		
"	8-C50	AB		
"	8-C58	AB		
"	8-C65	AB		
VCEAZA1CW107M	8-C141	AC		
VCEAZA1CW227M	8-C601	AC		
"	8-C854	AC		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VCEAZA1EW106M	8-C21	AB		
"	8-C22	AB		
VCEAZA1EW226M	8-C133	AB		
"	8-C864	AB		
"	8-C865	AB		
VCEAZA1EW476M	8-C1	AB		
"	8-C3	AB		
"	8-C69	AB		
"	8-C111	AB		
"	8-C112	AB		
"	8-C117	AB		
"	8-C118	AB		
"	8-C131	AB		
"	8-C132	AB		
"	8-C140	AB		
"	8-C391	AB		
"	8-C394	AB		
"	8-C717	AB		
"	8-C925	AB		
"	8-C944	AB		
VCEAZA1EW477M	8-C842	AD		
VCEAZA1HW104M	8-C946	AB		
VCEAZA1HW105M	8-C63	AB		
"	8-C358	AB		
"	8-C367	AB		
"	8-C368	AB		
"	8-C370	AB		
"	8-C371	AB		
"	8-C372	AB		
"	8-C393	AB		
"	8-C609	AB		
"	8-C610	AB		
"	8-C613	AB		
"	8-C614	AB		
"	8-C617	AB		
"	8-C618	AB		
"	8-C619	AB		
"	8-C620	AB		
"	8-C621	AB		
"	8-C622	AB		
"	8-C623	AB		
"	8-C624	AB		
"	8-C639	AB		
"	8-C701	AB		
"	8-C707	AB		
VCEAZA1HW106M	8-C307	AB		
"	8-C352	AB		
"	8-C380	AB		
"	8-C855	AB		
"	8-C931	AB		
VCEAZA1HW225M	8-C357	AB		
"	8-C364	AB		
VCEAZA1HW226M	8-C125	AB		
"	8-C126	AB		
"	8-C640	AB		
"	8-C859	AB		
VCEAZA1HW335M	8-C143	AB		
"	8-C714	AB		
VCEAZA1HW362M	8-C362			
VCEAZA1HW475M	8-C615	AB		
"	8-C616	AB		
"	8-C901	AB		
"	8-C902	AB		
VCEAZA1HW476M	8-C150	AB		
"	8-C802	AB		
"	8-C803	AB		
"	8-C905	AB		
"	8-C906	AB		
VCEAZA1JW227M	8-C804	AD		
VCEAZA1VW107M	8-C801	AC		
"	8-C916	AC		
"	8-C918	AC		
VCEAZA2AW107M	8-C911	AD		
"	8-C912	AD		
"	8-C914	AD		
"	8-C915	AD		
VCEAZA2AW226M	8-C805	AC		
VCFYDA2AA224J	8-C810	AD		
"	8-C811	AD		
VCFYFA1HA104J	8-C605	AC		
"	8-C606	AC		
VCFYFA1HA823J	8-C607	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	8-C608	AB		
VCKYBT1HB101K	8-C318	AA		
VCKYBT1HB102K	8-C320	AA		
"	8-C389	AA		
VCKYBT1HB103K	8-C631	AB		
VCKYBT1HB181K	8-C103	AA		
VCKYCY1CB103K	8-C2	AA		
"	8-C6	AA		
"	8-C25	AA		
"	8-C34	AA		
"	8-C38	AA		
"	8-C46	AA		
"	8-C47	AA		
"	8-C51	AA		
"	8-C52	AA		
"	8-C53	AA		
"	8-C62	AA		
"	8-C66	AA		
"	8-C68	AA		
"	8-C70	AA		
"	8-C76	AA		
VCKYCY1CB104K	8-C10	AB		
"	8-C37	AB		
"	8-C39	AB		
"	8-C59	AB		
"	8-C71	AB		
"	8-C87	AB		
VCKYCY1CB473K	8-C5	AA		
"	8-C35	AA		
VCKYCY1CB563K	8-C11	AB		
"	8-C33	AB		
VCKYCY1CF224Z	8-C36	AB		
VCKYCY1EF223Z	8-C13	AB		
"	8-C17	AB		
"	8-C26	AB		
"	8-C31	AB		
"	8-C48	AB		
"	8-C84	AB		
"	8-C121	AB		
"	8-C135	AB		
"	8-C306	AB		
"	8-C312	AB		
"	8-C316	AB		
"	8-C323	AB		
"	8-C332	AB		
"	8-C342	AB		
"	8-C347	AB		
"	8-C350	AB		
"	8-C351	AB		
"	8-C353	AB		
"	8-C354	AB		
"	8-C361	AB		
"	8-C363	AB		
"	8-C387	AB		
"	8-C395	AB		
"	8-C397	AB		
"	8-C399	AB		
"	8-C720	AB		
"	8-C721	AB		
VCKYCY1EF473Z	8-C723	AB		
"	8-C727	AB		
"	8-C730	AB		
"	8-C732	AB		
VCKYCY1HB102K	8-C4	AA		
"	8-C29	AA		
"	8-C60	AA		
"	8-C74	AA		
"	8-C75	AA		
"	8-C83	AA		
"	8-C302	AA		
"	8-C309	AA		
"	8-C317	AA		
"	8-C338	AA		
"	8-C356	AA		
"	8-C366	AA		
"	8-C384	AA		
"	8-C388	AA		
"	8-C392	AA		
"	8-C903	AA		
"	8-C904	AA		
VCKYCY1HB103K	8-C304	AA		
"	8-C315	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	8-C385	AA		
"	8-C693	AA		
"	8-C715	AA		
"	8-C917	AA		
"	8-C919	AA		
"	8-C952	AA		
VCKYCY1HB104K	8-C885	AD		
VCKYCY1HB152K	8-C105	AA		
"	8-C106	AA		
VCKYCY1HB221K	8-C651	AA		
"	8-C652	AA		
"	8-C653	AA		
VCKYCY1HB222K	8-C119	AA		
"	8-C120	AA		
"	8-C611	AA		
"	8-C612	AA		
"	8-C625	AA		
"	8-C626	AA		
VCKYCY1HB271K	8-C123	AA		
"	8-C124	AA		
VCKYCY1HB272K	8-C8	AA		
VCKYCY1HB331K	8-C107	AA		
"	8-C108	AA		
"	8-C109	AA		
"	8-C110	AA		
"	8-C386	AA		
VCKYCY1HB332K	8-C82	AA		
"	8-C129	AA		
"	8-C130	AA		
VCKYCY1HB473K	8-C709	AB		
"	8-C710	AB		
VCKYCY1HB561K	8-C101	AA		
"	8-C102	AA		
"	8-C115	AA		
"	8-C116	AA		
"	8-C335	AA		
VCKYCY1HF103Z	8-C722	AB		
VCKYPA1HB102K	8-C694	AA		
"	8-C695	AA		
VCKYPA1HB103K	8-C696	AA		
VCKYPA1HB391K	8-C690	AA		
"	8-C691	AA		
VCKYPA1HF223Z	8-C602	AB		
"	8-C861	AB		
VCKZPA1HF473Z	8-C331	AA		
VCQPKA2AA822J	8-C138	AA		
VCQYKA1HM104K	8-C806	AB		
"	8-C807	AB		
"	8-C808	AB		
"	8-C809	AB		
"	8-C856	AB		
"	8-C909	AB		
"	8-C928	AB		
"	8-C929	AB		
VCQYKA1HM152K	8-C23	AB		
"	8-C24	AB		
VCQYKA1HM393K	8-C139	AB		
VCQYKA1HM473K	8-C137	AB		
"	8-C843	AB		
VCTYBT1EF223Z	8-C85	AA		
"	8-C86	AA		
VCTYPA1CX153K	8-C373	AA		
"	8-C374	AA		
VCTYPA1CX223K	8-C127	AA		
"	8-C128	AA		
"	8-C365	AA		
VCTYPA1EX393K	8-C113	AA		
"	8-C114	AA		
VHCSVC230C/-1	10-VD302	AD		
"	10-VD303	AD		
VHCSVC347S/-1	10-VD301	AG		
VHD1N4004S/-1	3-D803	AB		
"	3-D804	AB		
"	3-D805	AB		
"	3-D806	AB		
"	3-D842	AB		
"	3-D843	AB		
"	3-D844	AB		
"	3-D845	AB		
"	3-D853	AB		
"	3-D909	AB		
"	3-D910	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VHD1N4148H/-1	3-D305	AA		
"	3-D690	AA		
"	3-D691	AA		
"	3-D709	AA		
"	3-D710	AA		
"	3-D711	AA		
"	3-D712	AA		
"	3-D713	AA		
"	3-D714	AA		
"	3-D715	AA		
"	3-D716	AA		
"	3-D846	AA		
"	3-D856	AA		
"	3-D860	AA		
"	3-D861	AA		
"	3-D862	AA		
"	3-D863	AA		
"	3-D885	AA		
"	3-D905	AA		
"	3-D906	AA		
"	3-D907	AA		
"	3-D911	AA		
"	3-D912	AA		
"	3-D913	AA		
"	3-D914	AA		
VHDD10XB60F-1	3-D801	AL		
"	3-D802	AL		
VHDKDS184//-1	3-D1	AB		
VHEDZ120BSB-1	3-ZD805	AB		
"	3-ZD902	AB		
"	3-ZD903	AB		
VHEDZ300BSB-1	3-ZD803	AB		
VHEDZ5R1BSB-1	3-ZD351	AC		
VHEDZ6R2BSA-1	3-ZD801	AB		
VHEDZ7R5BSB-1	3-ZD802	AB		
VHEMA8033//-1	3-ZD1	AC		
VHIAN7345K/-1	1-IC101	AM		
VHIAN78L05/-1	1-IC854	AE		
VHIAN80T53/-1	1-IC851	AL		
VHILA1832S/-1	1-IC303	AN		
VHILA6261//-1	1-IC2	AN		
VHILC72131/-1	1-IC302	AP		
VHILC75341/-1	1-IC601	AM		
VHILC78648E-1	1-IC1	AW		
VHILC78684E-1	1-IC3	AZ		
VHILV1625635T	1-IC4	AT		
VHISI3033LUS1	1-IC6	AG		
VHISTK41242-1	1-IC901	BB		
VHITA7358AP-1	1-IC301	AG		
VHLPIC3704/-1	10-RX701	AG		
VHP304VT2H3-1	3-LED701	AC		
VHPGP1S094HCZ	10-RX1	AF		
"	12-RX1	AF		
VHPSDPB50CD-1	3-LED703	AK		
VP-DH101K0000	6-L351	AB		
"	6-L352	AB		
"	6-L701	AB		
VP-MK331K0000	6-L103	AB		
VRD-RT2HD100J	9-R938	AA		
"	9-R939	AA		
"	9-R940	AA		
"	9-R941	AA		
VRD-RT2HD102J	9-R949	AA		
VRD-RT2HD152J	9-R925	AA		
"	9-R926	AA		
VRD-RT2HD222J	9-R808	AA		
VRD-RT2HD3R3J	9-R863	AA		
VRD-RT2HD820J	9-R142	AA		
VRD-ST2CD101J	9-R740	AA		
VRD-ST2CD102J	9-R113	AA		
"	9-R114	AA		
"	9-R393	AA		
"	9-R601	AA		
"	9-R602	AA		
"	9-R603	AA		
"	9-R704	AA		
"	9-R705	AA		
"	9-R707	AA		
"	9-R708	AA		
"	9-R709	AA		
"	9-R710	AA		
"	9-R711	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	9-R712	AA		
"	9-R717	AA		
"	9-R723	AA		
"	9-R725	AA		
"	9-R730	AA		
"	9-R739	AA		
"	9-R741	AA		
"	9-R746	AA		
"	9-R769	AA		
"	9-R842	AA		
"	9-R910	AA		
"	9-RD13	AA		
"	9-RD25	AA		
VRD-ST2CD103J	9-R309	AA		
"	9-R573	AA		
"	9-R642	AA		
"	9-R780	AA		
"	9-R859	AA		
VRD-ST2CD104J	9-R782	AA		
"	9-R801	AA		
VRD-ST2CD123J	9-R803	AA		
VRD-ST2CD152J	9-R918	AA		
"	9-R921	AA		
"	9-R944	AA		
"	9-R945	AA		
"	9-RD04	AA		
VRD-ST2CD153J	9-R111	AA		
VRD-ST2CD220J	9-R314	AA		
VRD-ST2CD221J	9-R858	AA		
VRD-ST2CD223J	9-R386	AA		
"	9-R853	AA		
"	9-R857	AA		
"	9-R864	AA		
VRD-ST2CD224J	9-R841	AA		
VRD-ST2CD331J	9-R618	AA		
"	9-R751	AA		
VRD-ST2CD332J	9-R358	AA		
"	9-R854	AA		
VRD-ST2CD333J	9-R692	AA		
"	9-R693	AA		
VRD-ST2CD471J	9-R375	AA		
VRD-ST2CD472J	9-R771	AA		
"	9-R787	AA		
"	9-R788	AA		
"	9-R789	AA		
VRD-ST2CD473J	9-R750	AA		
"	9-R802	AA		
"	9-R806	AA		
"	9-R843	AA		
"	9-R888	AA		
"	9-R889	AA		
VRD-ST2CD4R7J	9-R145	AA		
VRD-ST2CD560J	9-R115	AA		
"	9-R116	AA		
VRD-ST2CD561J	9-R729	AA		
VRD-ST2CD562J	9-R384	AA		
"	9-R387	AA		
"	9-R759	AA		
VRD-ST2CD563J	9-R934	AA		
"	9-R935	AA		
VRD-ST2CD681J	9-RD01	AA		
"	9-RD23	AA		
VRD-ST2CD683J	9-R950	AA		
VRD-ST2CD821J	9-RD24	AA		
VRD-ST2CD822J	9-R690	AA		
"	9-R691	AA		
VRD-ST2EE101J	9-R891	AA		
VRD-ST2EE151J	9-R149	AA		
"	9-R382	AA		
VRD-ST2EE1R0J	9-R94	AA		
"	9-R95	AA		
VRD-ST2EE1R5J	9-R794	AA		
"	9-R795	AA		
VRD-ST2EE221J	9-R158	AA		
VRD-ST2EE271J	9-R391	AA		
"	9-R392	AA		
VRD-ST2EE393J	9-R927	AA		
"	9-R928	AA		
VRD-ST2EE470J	9-R804	AA		
"	9-R805	AA		
VRD-ST2EE473J	9-R929	AA		
"	9-R930	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
VRD-ST2EE820J	9-R844	AA		
VRG-ST2EC101J	9-R912	AB		
"	9-R958	AB		
VRN-VV3LAR10J	9-R917	AD		
"	9-R922	AD		
VRN-VV3LAR22J	9-R913	AC		
"	9-R916	AC		
VRS-CY1JB000J	9-	AA		
VRS-CY1JB100J	9-R9	AA		
"	9-R302	AA		
VRS-CY1JB101J	9-R27	AA		
"	9-R132	AA		
"	9-R133	AA		
"	9-R783	AA		
VRS-CY1JB102J	9-R18	AA		
"	9-R19	AA		
"	9-R41	AA		
"	9-R42	AA		
"	9-R43	AA		
"	9-R44	AA		
"	9-R45	AA		
"	9-R46	AA		
"	9-R47	AA		
"	9-R48	AA		
"	9-R60	AA		
"	9-R62	AA		
"	9-R64	AA		
"	9-R66	AA		
"	9-R67	AA		
"	9-R69	AA		
"	9-R70	AA		
"	9-R72	AA		
"	9-R74	AA		
"	9-R76	AA		
"	9-R77	AA		
"	9-R78	AA		
"	9-R101	AA		
"	9-R102	AA		
"	9-R352	AA		
"	9-R356	AA		
"	9-R372	AA		
"	9-R373	AA		
"	9-R374	AA		
"	9-R376	AA		
"	9-R378	AA		
"	9-R701	AA		
"	9-R702	AA		
"	9-R703	AA		
"	9-R706	AA		
"	9-R713	AA		
"	9-R714	AA		
"	9-R715	AA		
"	9-R716	AA		
"	9-R718	AA		
"	9-R719	AA		
"	9-R720	AA		
"	9-R721	AA		
"	9-R722	AA		
"	9-R724	AA		
"	9-R732	AA		
"	9-R733	AA		
"	9-R736	AA		
"	9-R763	AA		
"	9-R784	AA		
"	9-R903	AA		
"	9-R904	AA		
"	9-R908	AA		
"	9-R956	AA		
"	9-RD03	AA		
VRS-CY1JB103J	9-R25	AA		
"	9-R26	AA		
"	9-R57	AA		
"	9-R58	AA		
"	9-R91	AA		
"	9-R92	AA		
"	9-RM1	AA		
"	9-RM2	AA		
"	9-R134	AA		
"	9-R135	AA		
"	9-R138	AA		
"	9-R139	AA		
"	9-R146	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	9-R147	AA		
"	9-R336	AA		
"	9-R365	AA		
"	9-R381	AA		
"	9-R604	AA		
"	9-R605	AA		
"	9-R641	AA		
"	9-R731	AA		
"	9-R761	AA		
"	9-R762	AA		
"	9-R766	AA		
"	9-R767	AA		
"	9-R768	AA		
"	9-R773	AA		
"	9-R777	AA		
"	9-R778	AA		
"	9-R779	AA		
"	9-RD19	AA		
"	9-RD31	AA		
VRS-CY1JB104J	9-R68	AA		
"	9-R117	AA		
"	9-R118	AA		
"	9-R311	AA		
VRS-CY1JB151J	9-R29	AA		
"	9-R83	AA		
VRS-CY1JB152J	9-R130	AA		
"	9-R131	AA		
"	9-R380	AA		
"	9-RD14	AA		
"	9-RD26	AA		
VRS-CY1JB153J	9-R112	AA		
"	9-R947	AA		
"	9-RD20	AA		
"	9-RD32	AA		
VRS-CY1JB182J	9-R359	AA		
"	9-R919	AA		
"	9-R920	AA		
"	9-R984	AA		
VRS-CY1JB183J	9-R121	AA		
"	9-R122	AA		
VRS-CY1JB221J	9-R28	AA		
"	9-R75	AA		
VRS-CY1JB222J	9-R8	AA		
"	9-R23	AA		
"	9-R24	AA		
"	9-R49	AA		
"	9-R59	AA		
"	9-R61	AA		
"	9-R63	AA		
"	9-R65	AA		
"	9-R71	AA		
"	9-R73	AA		
"	9-R82	AA		
"	9-R85	AA		
"	9-R103	AA		
"	9-R104	AA		
"	9-R379	AA		
"	9-R608	AA		
"	9-R609	AA		
"	9-R610	AA		
"	9-R611	AA		
"	9-R616	AA		
"	9-R617	AA		
"	9-R726	AA		
"	9-R987	AA		
"	9-R988	AA		
"	9-RD05	AA		
"	9-RD15	AA		
"	9-RD27	AA		
VRS-CY1JB223J	9-R144	AA		
"	9-R620	AA		
"	9-R621	AA		
"	9-R886	AA		
"	9-R887	AA		
VRS-CY1JB224J	9-R136	AA		
"	9-R137	AA		
VRS-CY1JB225J	9-R99	AA		
VRS-CY1JB271J	9-R98	AA		
"	9-RM5	AA		
"	9-R353	AA		
VRS-CY1JB272J	9-R123	AA		
"	9-R124	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	9-R350	AA		
"	9-R785	AA		
"	9-RD06	AA		
"	9-RD16	AA		
"	9-RD28	AA		
VRS-CY1JB331J	9-R12	AA		
"	9-R619	AA		
VRS-CY1JB332J	9-R81	AA		
"	9-R105	AA		
"	9-R106	AA		
"	9-R355	AA		
VRS-CY1JB333J	9-R3	AA		
"	9-R6	AA		
"	9-R97	AA		
"	9-R313	AA		
"	9-R909	AA		
"	9-R983	AA		
"	9-RD21	AA		
VRS-CY1JB391J	9-R30	AA		
"	9-R31	AA		
"	9-R32	AA		
"	9-R33	AA		
"	9-R34	AA		
"	9-R35	AA		
"	9-R36	AA		
"	9-R37	AA		
"	9-R612	AA		
"	9-R613	AA		
VRS-CY1JB392J	9-R119	AA		
"	9-R120	AA		
"	9-R388	AA		
"	9-R606	AA		
"	9-R607	AA		
"	9-RD17	AA		
"	9-RD29	AA		
VRS-CY1JB470J	9-R7	AA		
VRS-CY1JB472J	9-R10	AA		
"	9-R17	AA		
"	9-R20	AA		
"	9-R21	AA		
"	9-R22	AA		
"	9-R40	AA		
"	9-R52	AA		
"	9-R56	AA		
"	9-R79	AA		
"	9-R84	AA		
"	9-R86	AA		
"	9-R87	AA		
"	9-R88	AA		
"	9-R89	AA		
"	9-R93	AA		
"	9-R96	AA		
"	9-R109	AA		
"	9-R110	AA		
"	9-R126	AA		
"	9-R127	AA		
"	9-R141	AA		
"	9-R148	AA		
"	9-R316	AA		
"	9-R360	AA		
"	9-R593	AA		
"	9-R614	AA		
"	9-R615	AA		
"	9-R775	AA		
"	9-R776	AA		
"	9-R786	AA		
"	9-R791	AA		
VRS-CY1JB473J	9-R107	AA		
"	9-R108	AA		
"	9-R140	AA		
"	9-R143	AA		
"	9-R325	AA		
"	9-R377	AA		
"	9-R395	AA		
"	9-R781	AA		
"	9-R946	AA		
VRS-CY1JB474J	9-R357	AA		
VRS-CY1JB561J	9-R905	AA		
"	9-R906	AA		
VRS-CY1JB562J	9-R54	AA		
"	9-R128	AA		
"	9-R129	AA		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	9-R351	AA		
"	9-R383	AA		
"	9-R385	AA		
"	9-R770	AA		
"	9-RD18	AA		
"	9-RD30	AA		
VRS-CY1JB563J	9-R38	AA		
"	9-R901	AA		
"	9-R902	AA		
"	9-R907	AA		
"	9-R911	AA		
"	9-R937	AA		
VRS-CY1JB681J	9-R39	AA		
"	9-R50	AA		
"	9-RM6	AA		
"	9-R322	AA		
"	9-R727	AA		
"	9-R728	AA		
"	9-RD11	AA		
VRS-CY1JB682J	9-R14	AA		
"	9-R15	AA		
"	9-R16	AA		
"	9-R55	AA		
"	9-R643	AA		
"	9-R644	AA		
VRS-CY1JB683J	9-R150	AA		
"	9-R323	AA		
VRS-CY1JB820J	9-R80	AA		
VRS-CY1JB821J	9-R885	AA		
"	9-RD02	AA		
"	9-RD12	AA		
VRS-CY1JB822J	9-R13	AA		
"	9-R790	AA		
"	9-R985	AA		
"	9-R986	AA		
VRS-VV3DA471J	9-R942	AB		
"	9-R943	AB		
VS2SD601AR/-1	2-Q3	AC		
"	2-Q4	AC		
"	2-Q5	AC		
VSKRA107S//-1	2-Q711	AB		
"	2-Q715	AB		
"	2-Q717	AB		
VSKRC102S//-1	2-Q709	AB		
"	2-Q710	AB		
VSKRC104S//-1	2-Q110	AC		
"	2-Q113	AC		
"	2-Q114	AC		
"	2-Q712	AC		
"	2-Q713	AC		
"	2-Q714	AC		
"	2-Q716	AC		
VSKTA1266GR-1	2-Q360	AB		
VSKTA1271Y/-1	2-Q2	AC		
VSKTA1273Y/-1	2-Q706	AE		
"	2-Q707	AE		
"	2-Q708	AE		
VSKTA1274Y/-1	2-Q801	AE		
VSKTA1504Y/-1	2-Q1	AB		
"	2-Q109	AB		
"	2-Q112	AB		
VSKTC3194Y/-1	2-Q302	AD		
VSKTC3199GR-1	2-Q841	AB		
"	2-Q905	AB		
VSKTC3200GR-1	2-Q101	AC		
"	2-Q102	AC		
"	2-Q103	AC		
"	2-Q104	AC		
VSKTC3203Y/-1	2-Q111	AC		
"	2-Q906	AC		
VSKTC3875GR-1	2-Q6	AB		
"	2-Q105	AB		
"	2-Q106	AB		
"	2-Q107	AB		
"	2-Q108	AB		
"	2-Q601	AB		
"	2-Q602	AB		
"	2-Q603	AB		
"	2-Q604	AB		
"	2-Q885	AB		
"	2-Q886	AB		
"	2-Q901	AB		

PARTS CODE	No.	PRICE RANK	NEW MARK	PART RANK
"	2-Q902	AB		
"	2-Q903	AB		
"	2-Q904	AB		
"	2-Q908	AB		
"	2-Q909	AB		
VVKNA12MM44-1	10-FL701	AX		
[X]				
XBBSD20P03000	11-703	AA		
XBBSD20P04000	13-609	AA		
XBSSD26P06000	11-701	AA		
XEBSD20P10000	12-803	AA		
XEBSD26P10000	13-604	AA		
XEBSD30P10000	12-804	AA		
"	13-602	AA		
XESSD30P10000	13-605	AA		
XHBSD40P08000	13-608	AA		
XJBSD30P10000	13-601	AA		
XJBSD30P12000	14-911	AA		
XJBSD40P16000	14-910	AB		
XJSSD30P08000	13-606	AA		
XMBSF40P16000	14-913	AC		
XMPSF40P35000	14-912	AC		
[9]				
92LBAG1460C1	15-	AB		
92LCONE2P5268	10-CNP301	AB		
92LCONE2P53253	10-CNP971	AB		
92LCONE5P53253	10-CNP603	AB		
92LCONE6P53253	10-CNP3	AC		
92LCONE6P53254	10-CNP3A	AC		
92LCONE7P53253	10-CNP4	AC		
92LCONE8P53254	10-CNP2	AC		
92LCONEAP5267X	10-CNP801	AC		
92LCRSTL1425A	7-X351	AF		
92LCSPR1431C	13-216	AA		
92LFANT1746A	15-	AD		
92LHPC1LFASY	11-306	BB		
92LMCUSN1524A	11-305	AD		
92LMTR1854BASY	10-NM2	AP		
"	11-NM2	AP		
92LMTR5515CASY	10-NM1	AS		
"	11-NM1	AS		
92LMTR5529AASY	10-M1	AD		
"	10-M2	AD		
"	12-M1	AD		
"	12-M2	AD		
92LNBAND1318A	13-208	AA		
92LPWB5612CDUS	16-PWB-C			
92LPWB6075MANS	16-PWB-A			
92LPWB6075PWRS	16-PWB-B1,2			
92LSWICH1401AT	10-SW701	AC		
"	10-SW702	AC		
"	10-SW703	AC		
"	10-SW704	AC		
"	10-SW705	AC		
"	10-SW706	AC		
"	10-SW707	AC		
"	10-SW712	AC		
"	10-SW713	AC		
"	10-SW714	AC		
"	10-SW715	AC		
"	10-SW716	AC		
"	10-SW717	AC		
"	10-SW718	AC		
"	10-SW719	AC		
"	10-SW720	AC		
"	10-SW721	AC		
"	10-SW722	AC		
"	10-SW723	AC		
"	10-SW725	AC		
"	10-SW726	AC		
"	10-SW727	AC		
"	10-SW728	AC		
"	10-SW729	AC		
"	10-SW730	AC		
"	10-SW731	AC		
"	10-SW732	AC		
"	10-SW733	AC		
"	10-SW734	AC		
"	10-SW735	AC		

Explanation of capacitors/resistors parts codes

Capacitors

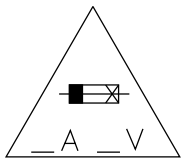
VCC ..... Ceramic type
VCK..... Ceramic type
VCT ..... Semiconductor type
VC • • MF ..... Cylindrical type (without lead wire)
VC • • MN..... Cylindrical type (without lead wire)
VC • • TV..... Square type (without lead wire)
VC • • TQ ..... Square type (without lead wire)
VC • • CY ..... Square type (without lead wire)
VC • • CZ ..... Square type (without lead wire)
VC • • • • • • • • • J.. The 13th character represents capacity difference.
("J" ±5%, "K" ±10%, "M" ±20%, "N" ±30%,
"C" ±0.25 pF, "D" ±0.5 pF, "Z" +80-20%.)

If there are no indications for the electrolytic capacitors, error is ±20%.

Resistors

VRD ..... Carbon-film type
VRS..... Carbon-film type
VRN ..... Metal-film type
VR • • MF ..... Cylindrical type (without lead wire)
VR • • MN..... Cylindrical type (without lead wire)
VR • • TV..... Square type (without lead wire)
VR • • TQ ..... Square type (without lead wire)
VR • • CY ..... Square type (without lead wire)
VR • • CZ ..... Square type (without lead wire)
VR • • • • • • • • • J.. The 13th character represents error.
("J" ±5%, "F" ±1%, "D" ±0.5%.)

If there are no indications for other parts, the resistors are ±5% carbon-film type.



CAUTION:FOR CONTINUED
PROTECTION AGAINST FIRE
HAZARD, REPLACE ONLY WITH
SAME TYPE F801, F802 5A, 125V /
F803, F804 2A, 125V / F805 5A, 125V FUSES

ATTENTION:POUR ASSURER
UNE LONGUE PROTECTION CONTRE
UNINCENDIE, REMPLACER SEULEMENT
PAR UN FUSIBLE DE
TYPE F801, F802 5A, 125V /
F803, F804 2A, 125V / F805 5A, 125V

NOTE:
Parts marked with "⚠" are important for maintaining the safety of the set.
Be sure to replace parts with specified ones for maintaining the safety and performance of the set.

SHARP

COPYRIGHT © 2004 BY SHARP CORPORATION

ALL RIGHTS RESERVED.

No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any from or by any means, electronic, mechanical, photocopying, recording, or otherwise, without prior written permission of the publisher.

SHARP CORPORATION
AV Systems Group
Quality & Reliability Control Center
Higashihiroshima, Hiroshima 739-0192, Japan

Printed in Japan

A0407-	**DS・HA・M**

LAG